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United States Department of the Interior
Geological Survey

Small Area Peak-Flow Highway Program in Montana



October 1963 to September 1964

Prepared in cooperation with the

Montana Highway Commission

and

**U.S. Department of Commerce
Bureau of Public Roads**

Helena, Montana
August 1965

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SMALL-AREA PEAK-FLOW HIGHWAY PROGRAM IN MONTANA

Progress Report
for the
Water Year Ending September 30, 1964

Prepared in cooperation
with the
Montana Highway Commission
and the
U. S. Department of Commerce, Bureau of Public Roads

By
Fred C. Boner

U. S. GEOLOGICAL SURVEY
408 FEDERAL BUILDING
HELENA, MONTANA
AUGUST 1965



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SMALL-AREA PEAK-FLOW HIGHWAY PROGRAM IN MONTANA

Progress Report for the Water Year
Ending September 30, 1964

INTRODUCTION

The Small-Area Peak-Flow Highway Program in Montana is an investigation of the magnitude and frequency of floods from small drainage areas. Since July 1, 1955, the program has been expanded from the original 45 crest-stage gaging stations to 138 gaging stations in 1959 and to 202 gaging stations in 1963. The investigation is currently financed under the provisions of an agreement between the Montana State Highway Commission and the U. S. Geological Survey, which provides for the full reimbursement of appropriate costs by the Highway Commission through its Planning Survey. The U. S. Bureau of Public Roads also cooperates in the program and reimburses the Highway Commission for approximately three-fourths of the total program cost.

This tenth annual progress report consists primarily of a tabulation of the annual peak stage and discharge at each of the gaging stations. The report is prepared to inform the cooperators, and other interested parties, of the status of the program and list the preliminary data available. It summarizes the activities and progress made during the 1964 water year which began October 1, 1963, and ended September 30, 1964.

The program is under the general supervision of Frank Stermitz, District Engineer, and under the direct supervision of Fred C. Boner, Hydraulic Engineer, of the U. S. Geological Survey.

Information on outstanding floods and other flow data at sites where crest-stage gaging stations are not operated were furnished on request to Mr. L. W. Hargrove, Hydrologist, Montana State Highway Commission.

PURPOSE OF THE PROGRAM

The ultimate purpose of the program is to obtain sufficient basic hydrologic data to define the magnitude and frequency of floods, on a regional basis, for the entire State of Montana. The study will utilize the data collected by this program, supplemented by the data collected by the regular established cooperative program of the Geological Survey. The plans for a detailed analysis following the end of the 1964 water year were necessarily delayed one year because of the extremely heavy work load caused by the June 1964 floods in northwestern Montana. The analysis will enable the user to determine the magnitude and frequency of floods for various sizes and types of drainage basins, and will be useful in the design of adequate highway drainage structures.

DETAILS OF PROGRAM OPERATION

Station Network

The crest-stage gaging station network at the beginning of the 1964 water year consisted of 202 stations, of which 11 were recording gages and 191 were crest-stage gages. During the year, the Griffith Creek near Glendive and Box Elder Creek at damsite, near Plentywood sites were made useless when dams were constructed upstream from the gages. The Middle Fork Milk River near Babb station was discontinued at the end of the 1964 water year because beaver dams in the channel made it impossible to define an adequate stage-discharge relation. The recording gage on Skyland Creek near Essex was replaced by a crest-stage gage after the June flood had changed the channel, leaving the recording gage unworkable.

The station network at the end of the 1964 water year consisted of 199 gages, of which 189 were crest-stage gages and 10 were recording gages. The approximate location of each gage is shown in figure 1.

Peak-flow data are being collected at 14 crest-stage gages in eastern Montana under a separate cooperative program between the U. S. Geological Survey and the Montana State Engineer. These stations are included in this report in both the downstream and alphabetical listings, and are shown in figure 1.

Weather reports from about seventy unpaid observers were collected during the water year. These reports give the amount and duration of rainfall for storms of more than half an inch of precipitation. They supplement the U. S. Weather Bureau data and are extremely useful in determining the date of a peak flow on a nearby stream and may be of value in flood-frequency analysis.

Program Activities, 1964 Water Year

The collection of peak-flow data continued to be the primary phase of operation. To insure proper operation, regular inspection visits are made to service the gages and record the intervening high-water marks. Additional visits are often necessary during flood periods to measure high flows or flag high-water marks along the stream channel for future transit-stadia surveys. These surveys provide the field data for the computation of peak discharge by indirect methods when actual discharge measurements are not obtained.

The floods of June 1964 in northwestern Montana were extremely severe. Peak discharges at crest-stage gages were the highest recorded since the gages were installed. Nine gages were destroyed and required rehabilitation. A channel change at Skyland Creek near Essex required the abandonment of the recording gage. A standard crest-stage gage was installed in the new channel. High-magnitude peak discharges were widely scattered in the eastern part of the State during the summer months as a result of heavy local rainstorms.

Numerous computations of peak flow were made for crest-stage gages located at highway culverts. The flow through a culvert is readily computed when the geometry of the culvert, the channel shape in the vicinity of the culvert, and the water-surface profile upstream and downstream from the culvert are known. These computations of peak discharge are supplemented, when possible, by discharge measurements and are used to define the stage-discharge relation for a particular gage. Once this relation has been defined at a gage, additional computations of peak flow are not necessary unless a higher peak discharge occurs, or significant changes are observed in the channel or the culvert geometry.

Annual level circuits between each gage and semi-permanent reference marks insure the retention of the same datum for all flood peaks. Datum adjustments are made when gages are disturbed or replacement is needed.

One indirect measurement of peak flow at a miscellaneous site was made on Pryor Creek at Huntley at the request of the Highway Commission. Data on high-water marks at a proposed Interstate Highway crossing were also furnished. The results of the indirect measurement are given in table 1.

Determination of the drainage area for the gaging stations established during the 1963 water year was nearly completed during the year. Other activities included the expansion of the rain-gage observer network from 53 to 71 unpaid observers.

Program Plans, 1965 Water Year

The collection of peak-flow data will continue to be the principal activity during the year. Routine inspections to insure proper gage operation will be made. Additional visits to run levels and make transit-stadia surveys for use in indirect measurement computations will also be made when necessary.

Measurements of peak flow at points other than gaging stations will be collected where significant damage is reported or the peak discharge may be hydrologically significant. The resources of the Geological Survey do not permit coverage of all reported events, and it is acknowledged that some may escape attention.

The analysis of data previously planned during the 1965 water year has been postponed until after the end of the 1965 water year.

PRESENTATION OF DATA

Cumulative annual peak-flow data for each gaging station being operated under this program are presented on pages 7 to 121 of this report. The report also includes similar data for the 14 stations being operated in cooperation with the Montana State Engineer. Each station manuscript includes the name, location, permanent station number, drainage area, period of record, type of gage, cooperator, if other than the Montana State Highway Commission, and the annual maximum data. The annual maximum data lists only the highest gage height and discharge (when available) for the given water year.

The annual maximum discharges given are preliminary figures and are subject to revision. If a maximum discharge is listed as "not determined", it means the discharge will be determined at a later date, generally because the stage-discharge relation has not yet been defined. A listing of "unknown" means a reliable discharge figure will never be available.

Indirect measurements were made at many miscellaneous sites following the June 1964 floods in northwestern Montana. These were not financed by this program and are not tabulated in this report. A listing of these measurements can be found in the "Surface Water Records of Montana, 1964", published by the U. S. Geological Survey in cooperation with the State of Montana and other agencies. A report on the hydrology and other phases of these outstanding floods is in preparation.

1. Long Creek near Lakeview, Mont.

Location.--Lat 44°43', long 112°04', in SE $\frac{1}{4}$ sec.10, T.13 S., R.4 W., at bridge on county road, 15 miles northwest of Lakeview.

Station number.--6-114

Drainage area.--33.9 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 12, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Apr. 6, 1960	3.17	235
1961	Apr. 17, 1961	1.00	48
1962	Apr. 27, 1962	3.42	265
1963	June 14, 1963	1.54	83
1964	May 14, 1964	2.72	196

2. Red Rock River tributary near Monida, Mont.

Location.--Lat 44°35', long 112°15', in SE $\frac{1}{4}$ sec.30, T.14 S., R.5 W., at county road, 3 miles east of Monida.

Station number.--6-119

Drainage area.--1.00 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 12, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Apr. 6, 1960	--	a 3
1961	Apr. 17, 1961	b 1.08	a 2
1962	Apr. 19, 1962	b 2.74	a 15
1963	April 1963	-.01	<1
1964	Apr. 29, 1964	b 3.20	a 10

a About.

b Backwater from ice.

3. Traux Creek near Lima, Mont.

Location.--Lat $44^{\circ}37'$, long $112^{\circ}34'$, in NW $\frac{1}{4}$ sec.15, T.14 S., R.8 W., at culvert 300 ft upstream from Interstate Highway 15 and U. S. Highway 91, 2 miles southeast of Lima.

Station number.--6-132

Drainage area.--2.77 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 12, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	March 1960	0.24	Not determined
1961	Mar. 14, 1961	.35	Not determined
1962	Apr. 19, 1962	.85	Not determined
1963	March 1963	--	<1
1964	April 1964	.06	Not determined

4. Muddy Creek near Dell, Mont.

Location.--Lat $44^{\circ}38'$, long $112^{\circ}48'$, in SW $\frac{1}{4}$ sec.3, T.14 S., R.10 W., half a mile upstream from mouth, 8 miles southwest of Dell.

Station number.--6-134

Drainage area.--62.7 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 12, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	July 6, 1960	2.70	85
1961	Apr. 3, 1961	2.47	68
1962	Apr. 2, 1962	3.72	197
1963	June 7, 1963	1.22	14
1964	May 15, 1964	2.47	68

5. Sheep Creek below Muddy Creek, near Dell, Mont.

Location.--Lat $44^{\circ}40'$, long $112^{\circ}46'$, in SE $\frac{1}{4}$ sec.35, T.13 S., R.10 W., $6\frac{1}{2}$ miles southwest of Dell.

Station number.--6-135

Drainage area.--280 sq mi. At site in 1936, 293 sq mi.

Records available.--April to September 1936 and May 1946 to September 1953 (continuous record), June 1959 to

Gage.--Water-stage recorder re-installed June 24, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1936	--	--	Unknown
1946	May 28, 1946	5.54	379
1947	June 9, 1947	5.66	349
1948	Aug. 1, 1948	5.49	369
1949	Apr. 12, 1949	6.02	477
1950	Apr. 1, 1950	5.68	406
1951	Aug. 4, 1951	4.82	234
1952	Apr. 18, 1952	7.72	909
1953	June 2, 1953	5.23	313
1960	Mar. 26, 1960	4.44	168
1961	Apr. 4, 1961	3.98	84
1962	Apr. 2, 1962	4.83	236
1963	June 15, 1963	5.38	343
1964	June 10, 1964	6.06	491

6. Sage Creek tributary near Dell, Mont.

Location.--Lat $44^{\circ}44'$, long $112^{\circ}37'$, in SE $\frac{1}{4}$ sec.31, T.12 S., R.8 W., at bridge on county road, 4 miles east of Dell.

Station number.--6-139

Drainage area.--0.43 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 12, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	March 1960	0.13	Not determined
1961	---	----	(c)
1962	Apr. 2, 1962	.92	Not determined
1963	March 1963	--	<1
1964	April 1964	.50	Not determined

c No evidence of flow during year.

7. Grasshopper Creek near Dillon, Mont.

Location.--Lat 45°07', long 112°48', in NW¼ sec.26, T.8 S., R.10 W., on left bank 1 3/4 miles upstream from mouth and 11 miles southwest of Dillon.

Station number.--6-155

Drainage area.--348 sq mi.

Records available.--March 1921 to September 1929, April 1930 to June 1933, October 1945 to December 1953, March 1955 to September 1958, October 1959 to September 1961 (continuous record), October 1961 to

Gage.--Crest-stage gage installed Oct. 11, 1961. Water-stage recorder, chain or staff gages prior to October 1961.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1921	June 10, 1921	6.60	d 516
1922	May 28, 1922	6.48	d 543
1923	June 23, 1923	5.68	d 283
1924	Apr. 13, 1924	5.05	d 120
1925	June 5, 1925	6.52	d 557
1926	July 8, 1926	5.52	d 197
1927	June 12, 1927	6.2	d 355
1928	May 13, 1928	6.10	d 327
1929	June 18, 1929	5.45	d 172
1930	---	--	Unknown
1931	Apr. 4, 1931	5.02	d 85
1932	June 7, 1932	6.06	d 322
1933	---	--	Unknown
1946	May 29, 1946	2.78	160
1947	Mar. 17, 1947	4.44	640
1948	June 4, 1948	4.51	719
1949	June 2, 1949	3.46	324
1950	June 23, 1950	3.22	252
1951	Mar. 22, 1951	4.11	559
1952	May 16, 1952	3.20	257
1953	June 3, 1953	4.51	719
1954	---	--	Unknown
1955	June 30, 1955	3.39	328
1956	Mar. 24, 1956	6.47	1,870
1957	May 21, 1957	3.75	433
1958	June 5, 1958	4.16	579
1959	---	--	Unknown
1960	Mar. 25, 1960	4.06	539
1961	June 14, 1961	3.14	252
1962	Mar. 27, 1962	3.83	450
1963	Feb. 3, 1963	b 4.61	465
1964	June 9, 1964	4.16	539

b Backwater from ice.

d Maximum observed.

8. Beaverhead River tributary near Dillon, Mont.

Location.--Lat 45°13', long 112°40', in SE $\frac{1}{4}$ sec.15, T.7 S., R.9 W., 250 ft upstream from settling basin, 2 miles west of Dillon.

Station number.--6-169

Drainage area.--0.62 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 11, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Mar. 18, 1960	0.32	Not determined
1961	---	--	(c)
1962	Feb. 2, 1962	.02	Not determined
1963	Feb. 3, 1963	.20	Not determined
1964	---	--	(c)

9. Beaverhead River tributary No. 2 near Dillon, Mont.

Location.--Lat 45°19', long 112°32', in NW $\frac{1}{4}$ sec.13, T.6 S., R.8 W., at culvert on State Highway 41, 9 miles northeast of Dillon.

Station number.--6-182

Drainage area.--0.40 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 7, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	e June 24, 1958	5.04	170
1959	--	--	(c)
1960	Mar. 19, 1960	.41	3
1961	June 12, 1961	.36	2.5
1962	---	--	(c)
1963	Sept. 2, 1963	.30	2
1964	June 27, 1964	.29	2

c No evidence of flow during year.

e Prior to installation of gage; peak discharge computed from high-water marks along highway embankment at culvert.

10. Idaho Creek near Alder, Mont.

Location.--Lat 45°12', long 112°08', in center sec.30, T.7 S., R.4 W., at bridge on county road, 9 miles south of Alder.

Station number.--6-198

Drainage area.--10.8 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 7, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Mar. 27, 1960	b 2.18	Not determined
1961	Apr. 4, 1961	.87	Not determined
1962	Apr. 25, 1962	2.30	Not determined
1963	Mar. 22, 1963	1.36	Not determined
1964	July 29, 1964	1.20	Not determined

11. Moose Creek near Divide, Mont.

Location.--Lat 45°43', long 112°42', in NW¼ sec.34, T.1 S., R.9 W., at culverts on Interstate Highway 15 and U. S. Highway 91, 3½ miles south-east of Divide.

Station number.--6-253

Drainage area.--41.4 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 11, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	May 7, 1960	1.62	90
1961	Apr. 4, 1961	.79	39
1962	Apr. 19, 1962	1.89	108
1963	May 22, 1963	2.66	165
1964	June 8, 1964	1.41	77

b Backwater from ice.

12. Fish Creek near Silverstar, Mont.

Location.--Lat 45°46', long 112°15', in NW $\frac{1}{4}$ sec.8, T.1 S., R.5 W., at bridge on county road, 6 miles north of Silverstar.

Station number.--6-277

Drainage area.--39.5 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 7, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	June 6, 1959	1.15	166
1960	May 13, 1960	.91	105
1961	Apr. 4, 1961	1.13	160
1962	June 3, 1962	.95	115
1963	June 11, 1963	1.16	141
1964	June 19, 1964	b 1.49	150

13. Jefferson River tributary near Whitehall, Mont.

Location.--Lat 45°53', long 112°00', in SE $\frac{1}{4}$ sec.32, T.2 N., R.3 W., at culvert on Interstate Highway 90 and U. S. Highway 10, 5 miles east of Whitehall.

Station number.--6-302

Drainage area.--1.85 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 6, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	--	--	(c)
1961	--	--	(c)
1962	Aug. 29, 1962	a 0.2	3
1963	Feb. 2, 1963	1.03	17
1964	Aug. 19, 1964	.97	16

a About

b Backwater from ice or debris

c No evidence of flow during year

14. Jefferson River tributary No. 2 near Whitehall, Mont.

Location.--Lat $45^{\circ}53'$, long $111^{\circ}59'$, in SE $\frac{1}{4}$ sec.33, T.2 N., R.3 W., at culvert on State Secondary Highway 281, 6 miles east of Whitehall.

Station number.--6-303

Drainage area.--4.50 sq mi.

Records available.--October 1957 to

Gage.--Crest-stage gage installed May 7, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	e June 24, 1958	4.45	169
1959	e Apr. 6, 1959	2.37	71
1960	--	--	(c)
1961	Sept. 11, 1961	1.32	34
1962	--	--	(c)
1963	Feb. 2, 1963	1.38	39
1964	June 8, 1964	.41	10

15. Sand Creek at Sappington, Mont.

Location.--Lat $45^{\circ}47'$, long $111^{\circ}45'$, in SW $\frac{1}{4}$ sec.32, T.1 N., R.1 W., three quarters of a mile southeast of Sappington.

Station number.--6-347

Drainage area.--9.41 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 6, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Apr. 9, 1960	1.36	50
1961	Aug. 14, 1961	(OG) 2.0	124
1962	Aug. 25, 1962	5.4	2,130
1963	Feb. 3, 1963	2.73	380
1964	--	--	(c)

c No evidence of flow during year.

e Prior to installation of gage.

16. Jefferson River tributary No. 3 near Sappington, Mont.

Location.--Lat 45°50', long 111°42', in SW¼ sec.14, T.1 N., R.1 W., at culvert on Interstate Highway 90 and U. S. Highway 10, 4 miles northeast of Sappington.

Station number.--6-348

Drainage area.--1.14 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 6, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Feb. 1, 1960	0.10	0.1
1961	Aug. 14, 1961	.95	12
1962	Mar. 6, 1962	.65	6
1963	Feb. 2, 1963	b 3.43	a50
1964	--	--	(c)

17. Jefferson River tributary No. 4 near Three Forks, Mont.

Location.--Lat 45°54', long 111°37', in SW¼ sec.28, T.2 N., R.1 E., at culverts on Interstate Highway 90 and U. S. Highway 10, 3 miles west of Three Forks.

Station number.--6-366

Drainage area.--0.53 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 6, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	--	--	(c)
1961	--	--	(c)
1962	Mar. 6, 1962	0.75	Not determined
1963	Feb. 2, 1963	.74	Not determined
1964	Aug. 19, 1964	.62	Not determined

a About.

b Backwater from ice.

c No evidence of flow during year.

18. Jefferson River tributary No. 5 near Three Forks, Mont.

Location.--Lat 45°55', long 111°36', in NE $\frac{1}{4}$ sec.21, T.2 N., R.1 E., at culvert on State Highway 287, 3 miles west of Three Forks.

Station number.--6-367

Drainage area.--3.69 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 6, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	--	--	(c)
1961	--	--	(c)
1962	Mar. 6, 1962	0.61	Not determined
1963	Feb. 2, 1963	.61	Not determined
1964	--	--	(c)

19. Squaw Creek near Gallatin Gateway, Mont.

Location.--Lat 45°26', long 111°13', in SW $\frac{1}{4}$ sec.34, T.4 S., R.4 E., at private bridge, 10 miles south of Gallatin Gateway.

Station number.--6-432

Drainage area.--40.4 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 5, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	June 7, 1959	2.20	a 420
1960	May 12, 1960	1.66	147
1961	May 26, 1961	1.47	200
1962	June 13, 1962	1.34	168
1963	June 15, 1963	1.49	208
1964	June 8, 1964	1.44	195

a About

c No evidence of flow during year.

20. Logger Creek near Gallatin Gateway, Mont.

Location.--Lat $45^{\circ}27'$, long $111^{\circ}14'$, in SW $\frac{1}{4}$ sec.28, T.4 S., R.4 E., at culvert on U. S. Highway 191, 10 miles south of Gallatin Gateway.

Station number.--6-433

Drainage area.--2.48 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 5, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	June 7, 1959	1.03	20
1960	May 12, 1960	.69	9
1961	May 26, 1961	.34	6
1962	June 13, 1962	.73	18
1963	May 27, 1963	.38	11
1964	June 8, 1964	1.09	25

21. East Gallatin River near Bozeman, Mont.

Location.--Lat $45^{\circ}38'35''$, long $110^{\circ}55'35''$, in SE $\frac{1}{4}$ sec.24, T.2 S., R.6 E., 6 miles east of Bozeman.

Station number.--6-465

Drainage area.--49.0 sq mi.

Records available.--November 1951 to September 1953 (continuous record), 1956-57 (miscellaneous measurements only), May 1959 to

Gage.--Water-stage recorder re-installed May 5, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1952	Apr. 19, 1952	4.08	421
1953	June 3, 1953	4.65	608
1959	Apr. 1, 1959	3.9	337
1960	May 8, 1960	3.64	248
1961	May 2, 1961	3.03	90
1962	Apr. 16, 1962	3.42	285
1963	Apr. 27, 1963	4.11	400
1964	May 17, 1964	3.65	212

22. Pitcher Creek near Bozeman, Mont.

Location.--Lat 45°39', long 110°56', in NW $\frac{1}{4}$ sec.24, T.2 S., R.6 E., at culvert on county road, 5 miles east of Bozeman.

Station number.--6-467

Drainage area.--2.33 sq mi.

Records available.--1951-53, miscellaneous measurements of base flow only.
May 1959 to

Gage.--Crest-stage gage installed May 6, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	May 13, 1960	1.25	14
1961	May 27, 1961	.03	1
1962	Apr. 24, 1962	.89	9
1963	Apr. 27, 1963	1.16	13
1964	May 17, 1964	.97	10

23. Bear Canyon Creek near Bozeman, Mont.

Location.--Lat 45°37'35", long 110°55'45", in NW $\frac{1}{4}$ sec.36, T.2 S., R.6 E., 6 miles southeast of Bozeman.

Station number.--6-470

Drainage area.--17.0 sq mi.

Records available.--November 1951 to September 1953 (continuous record),
May 1959 to

Gage.--Water-stage recorder re-installed May 5, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1952	May 26, 1952	2.84	149
1953	June 3, 1953	3.40	450
1959	May 1, 1959	2.2	a 150
1960	May 12, 1960	2.62	202
1961	May 22, 1961	1.77	46
1962	July 14, 1962	2.74	175
1963	May 9, 1963	2.43	110
1964	May 20, 1964	2.46	115

24. Castle Creek tributary near Ringling, Mont.

Location.--Lat $46^{\circ}22'$, long $111^{\circ}06'$, in NE $\frac{1}{4}$ sec.21, T.7 N., R.5 E., at culverts on U. S. Highway 12, 15 miles northwest of Ringling.

Station number.--6-562

Drainage area.--2.59 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 22, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	May 4, 1960	1.45	23
1961	Apr. 25, 1961	.91	12
1962	Apr. 19, 1962	2.74	28
1963	Feb. 4, 1963	.81	11
1964	May 1, 1964	2.99	35

25. Cabin Creek near Townsend, Mont.

Location.--Lat $46^{\circ}20'$, long $111^{\circ}13'$, in NW $\frac{1}{4}$ sec.27, T.7 N., R.4 E., 100 ft upstream from mouth, $14\frac{1}{2}$ miles east of Townsend.

Station number.--6-563

Drainage area.--12.6 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 22, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	June 4, 1960	2.00	Not determined
1961	June 22, 1961	.14	2
1962	May 22, 1962	.37	8
1963	June 21, 1963	.53	13
1964	May 19, 1964	1.37	38

26. Deep Creek below North Fork Deep Creek, near Townsend, Mont.

Location.--Lat 46°20', long 111°17', in SE $\frac{1}{4}$ sec.25, T.7 N., R.3 E., at bridge on county road, 11 miles east of Townsend.

Station number.--6-566

Drainage area.--87.7 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 18, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	June 7, 1959	2.15	290
1960	June 4, 1960	2.00	254
1961	May 24, 1961	1.60	83
1962	May 22, 1962	1.66	175
1963	June 2, 1963	1.89	170
1964	May 18, 1964	2.33	329

27. Mitchell Gulch near East Helena, Mont.

Location.--Lat 46°34', long 111°49', in NW $\frac{1}{4}$ sec.2, T.9 N., R.2 W., at culvert on U. S. Highway 12, 4.7 miles east of East Helena.

Station number.--6-587

Drainage area.--8.09 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 14, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	e March 1959	0.96	53
1960	Mar. 19, 1960	.32	6
1961	June 29, 1961	.27	2
1962	Mar. 20, 1962	.43	12
1963	Feb. 4, 1963	1.41	107
1964	--	--	(c)

c No evidence of flow during year.

e Prior to installation of gage.

28. Jackson Creek near East Helena, Mont.

Location.--Lat 46°28'20", long 111°51'10", in SE $\frac{1}{4}$ sec.4, T.8 N., R.2 W.,
300 ft upstream from mouth, 8 $\frac{1}{2}$ miles southeast of East Helena.

Station number.--6-617

Drainage area.--3.44 sq mi.

Records available.--June 1960 to

Gage.--Staff gage installed June 22, 1960 and crest-stage gage installed
July 8, 1960.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	--	--	Unknown
1961	May 1, 1961	1.48	4
1962	June 2, 1962	2.49	16
1963	June 4, 1963	2.21	12
1964	June 8, 1964	2.64	19

29. Crystal Creek near East Helena, Mont.

Location.--Lat 46°29'00", long 111°51'40", in NW $\frac{1}{4}$ sec.4, T.8 N., R.2 W.,
a quarter of a mile upstream from mouth, 8 miles southeast of East Helena.

Station number.--6-618

Drainage area.--3.77 sq mi.

Records available.--June 1960 to

Gage.--Staff gage installed June 22, 1960 and crest-stage gage installed
July 8, 1960.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	--	--	Unknown
1961	May 1, 1961	1.59	a 5
1962	June 2, 1962	1.55	11
1963	June 4, 1963	1.26	4
1964	June 8, 1964	1.64	21

a About.

30. McClellan Creek at City Diversion Dam, near East Helena, Mont.

Location.--Lat 46°32'00", long 111°52'40", in SE $\frac{1}{4}$ sec.17, T.9 N., R.2 W., 300 ft upstream from diversion dam, 4 $\frac{1}{2}$ miles southeast of East Helena.

Station number.--6-619

Drainage area.--33.2 sq mi.

Records available.--June 1960 to

Gage.--Staff gage installed June 23, 1960 and crest-stage gage installed July 7, 1960. Altitude of gage is 4,200 ft (from topographic map).

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage-height (ft)</u>	<u>Discharge (cfs)</u>
1960	e May-June 1960	3.01	120
1961	May 27, 1961	.65	48
1962	June 2, 1962	1.48	175
1963	May 26, 1963	.95	87
1964	June 8, 1964	2.59	390

31. Little Porcupine Creek tributary near Helena, Mont.

Location.--Lat 46°35', long 112°16', in SW $\frac{1}{4}$ sec.29, T.10 N., R.5 W., at culvert on U. S. Highway 12, 11 miles west of Helena.

Station number.--6-627

Drainage area.--0.48 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 14, 1959. Altitude of gage is 5,360 ft (from topographic map).

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	June 6, 1959	0.45	1.5
1960	May 12, 1960	.39	1.2
1961	May 22, 1961	.17	.4
1962	June 2, 1962	.49	1.7
1963	May 20, 1963	.57	2.2
1964	June 8, 1964	1.17	5.9

e Prior to installation of gage.

32. Lyons Creek near Wolf Creek, Mont.

Location.--Lat $46^{\circ}56'$, long $112^{\circ}08'$, in NE $\frac{1}{4}$ sec.29, T.14 N., R.4 W., 135 ft upstream from mouth, $5\frac{1}{2}$ miles southwest of Wolf Creek.

Station number.--6-712

Drainage area.--29.4 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 15, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	June 6, 1959	0.81	63
1960	June 2, 1960	.81	63
1961	May 28, 1961	.12	13
1962	May 22, 1962	1.57	158
1963	Feb. 4, 1963	1.3	120
1964	June 8, 1964	3.80	490

33. Dog Creek near Craig, Mont.

Location.--Lat $47^{\circ}05'$, long $112^{\circ}00'$, in NW $\frac{1}{4}$ sec.4, T.15 N., R.3 W., at bridge on county road, 2 miles west of Craig.

Station number.--6-714

Drainage area.--15.9 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 15, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Mar. 19, 1960	0.41	a 30
1961	May 30, 1961	4.40	1,160
1962	Mar. 17, 1962	2.42	114
1963	Feb. 3, 1963	2.05	70
1964	June 8, 1964	1.97	65

34. Wegner Creek at Craig, Mont.

Location.--Lat 47°05', long 111°57', in NW $\frac{1}{4}$ sec.11, T.15 N., R.3 W., at bridge on Interstate Highway 15 and U. S. Highway 91, 0.9 mile east of Craig.

Station number.--6-716

Drainage area.--35.0 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 15, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	June 2, 1960	0.59	46
1961	July 6, 1961	2.54	408
1962	Apr. 19, 1962	.33	24
1963	Feb. 3, 1963	.67	48
1964	May 6, 1964	1.84	280

35. Five Mile Creek near White Sulphur Springs, Mont.

Location.--Lat 46°37', long 110°45', in SW $\frac{1}{4}$ sec.20, T.10 N., R.8 E., at culvert on U.S. Highway 12, 8 miles northeast of White Sulphur Springs.

Station number.--6-756

Drainage area.--6.00 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 22, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	May 1, 1960	1.25	9
1961	--	--	(c)
1962	Mar. 27, 1962	1.38	11
1963	Feb. 4, 1963	2.06	a 20
1964	June 8, 1964	1.16	8

a About

c No evidence of flow during year.

36. Newland Creek near White Sulphur Springs, Mont.

Location.--Lat 46°44', long 110°50', near line between secs.9 and 10, T.11 N., R.7 E., 15 miles upstream from mouth, 13 miles north of White Sulphur Springs.

Station number.--6-760

Drainage area.--6.74 sq mi.

Records available.--September 1945 to November 1953 (continuous record), June 1959 to

Gage.--Water-stage recorder re-installed June 19, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1946	June 11,17,1946	0.72	d 4.9
1947	May 6, 1947	2.18	18
1948	May 8, 1948	2.64	29
1949	June 1, 1949	1.48	6.2
1950	May 28, 1950	1.64	9.5
1951	May 13, 1951	1.62	11
1952	May 4, 1952	1.66	14
1953	June 4, 1953	3.50	56
1960	May 19, 1960	2.39	5.1
1961	May 31, 1961	2.18	3.2
1962	May 29, 1962	2.68	15
1963	June 26, 1963	2.53	11
1964	June 8, 1964	2.59	13

37. Sheep Creek near Neihart, Mont.

Location.--Lat 46°48', long 110°42', in SE $\frac{1}{4}$ sec.15, T.12 N., R.8 E., at culvert on U. S. Highway 89, 10 miles south of Neihart.

Station number.--6-767

Drainage area.--5.30 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 22, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	May 12, 1960	1.12	38
1961	May 27, 1961	1.11	37
1962	May 21, 1962	1.37	49
1963	June 2, 1963	1.08	39
1964	June 8, 1964	2.12	113

d Maximum observed.

38. Nugget Creek near Neihart, Mont.

Location.--Lat $46^{\circ}47'$, long $110^{\circ}42'$, in NE $\frac{1}{4}$ sec.27, T.12 N., R.8 E., at culvert on U. S. Highway 89, 11 miles south of Neihart.

Station number.--6-768

Drainage area.--1.48 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 22, 1959. Altitude of gage is 6,400 ft (from topographic map).

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	June 7, 1959	1.05	14
1960	May 12, 1960	.38	5
1961	May 27, 1961	.30	4
1962	May 25, 1962	.50	6
1963	June 2, 1963	.50	6
1964	May 21, 1964	1.07	15

39. Smith River tributary near Eden, Mont.

Location.--Lat $48^{\circ}18'$, long $111^{\circ}26'$, in SW $\frac{1}{4}$ sec.13, T.18 N., R.2 E., at bridge on county road, 7 $\frac{1}{2}$ miles northwest of Eden.

Station number.--6-777

Drainage area.--1.63 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 25, 1959. Altitude of gage is 3,420 ft (from topographic map).

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Mar. 17, 1960	0.32	1.8
1961	--	--	(c)
1962	June 15, 1962	.72	4.5
1963	Feb. 2, 1963	.67	4.0
1964	May 3, 1964	.30	1.7

c No evidence of flow during year.

40. Goodman Coulee near Eden, Mont.

Location.--Lat 47°20', long 111°25', in center sec.12, T.18 N., R.2 E., at culvert on county road, 8 miles northwest of Eden.

Station number.--6-778

Drainage area.--21.8 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 25, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	e Apr. 22, 1959	1.57	49
1960	May 1, 1960	1.92	41
1961	--	--	(c)
1962	Mar. 19, 1962	4.17	127
1963	Feb. 4, 1963	2.30	55
1964	May 3, 1964	5.73	150

41. Beaver Creek at Gibson Dam, near Augusta, Mont.

Location.--Lat 47°36', long 112°45', in SE $\frac{1}{4}$ sec.4, T.21 N., R.9 W., at bridge on county road, 19 miles northwest of Augusta.

Station number.--6-796

Drainage area.--20.3 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 28, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	June 6, 1959	0.78	110
1960	May 12, 1960	2.28	458
1961	May 7, 1961	.37	55
1962	May 26, 1962	2.45	496
1963	May 25, 1963	.85	122
1964	June 8, 1964	--	4,360

c No evidence of flow during year.

e Prior to installation of gage; peak discharge computed from high-water marks along highway embankment at culvert.

42. Muddy Creek tributary near Power, Mont.

Location.--Lat $47^{\circ}45'$, long $111^{\circ}43'$, on south line of SW $\frac{1}{4}$ sec.10, T.23 N., R.1 W., at culvert on county road, 3 miles west of U. S. Highway 91, $3\frac{1}{2}$ miles northwest of Power, and 6 miles south of Dutton.

Station number.--6-879

Drainage area.--3.15 sq mi.

Records available.--April 1963 to

Gage.--Crest-stage gage installed Apr. 16, 1963. Altitude of gage is 3,710 ft (from topographic map).

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	July 10, 1963	1.15	19
1964	May 3, 1964	2.26	284

43. Sun River tributary near Great Falls, Mont.

Location.--Lat $47^{\circ}32'$, long $111^{\circ}24'$, in SW $\frac{1}{4}$ sec.31, T.21 N., R.3 E., at culvert on old U. S. Highways 89 and 91, 4 miles northwest of Great Falls.

Station number.--6-893

Drainage area.--21.1 sq mi

Records available.--August 1955 to

Gage.--Crest-stage gage installed Aug. 15, 1955. Altitude of gage is 3,330 ft (from topographic map).

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1956	Mar. 20, 1956	1.20	1
1957	June 16, 1957	1.05	.1
1958	July 3, 1958	2.74	156
1959	Mar. 2, 1959	2.52	116
1960	May 23, 1960	1.28	6
1961	--	--	(c)
1962	May 21, 1962	3.06	150
1963	July 5, 1963	1.64	18
1964	June 8, 1964	5.46	470

44. Middle Fork Dry Fork Marias River near Dupuyer, Mont.
Formerly published as North Fork Dry Fork Marias River

Location.--Lat 48°09', long 112°28', in NE $\frac{1}{4}$ sec.35, T.28 N., R.7 W., at culvert on county road, 4 miles southeast of Dupuyer.

Station number.--6-997

Drainage area.--20.2 sq mi.

Records available.--May 1959 to Prior to 1964, published as North Fork Dry Fork Marias River near Dupuyer.

Gage.--Crest-stage gage installed May 28, 1959. Altitude of gage is 4,120 ft (from topographic map).

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Mar. 17, 1960	b 1.24	a 70
1961	May 7, 1961	.29	10
1962	Mar. 19, 1962	.99	61
1963	Feb. 3, 1963	b 2.11	a 45
1964	June 8, 1964	6.56	4,240

45. Heines Coulee tributary near Valier, Mont.

Location.--Lat 48°15', long 112°14', in NE $\frac{1}{4}$ sec.27, T.29 N., R.5 W., at culvert on county road, 4 miles south of Valier.

Station number.--6-1002

Drainage area.--0.60 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 27, 1959. Altitude of gage is 3,860 ft (from topographic map).

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	May 1, 1960	0.92	9
1961	May 17, 1961	.54	4
1962	Jan 29, 1962	b .41	a 2
1963	1963	--	(c)
1964	June 8, 1964	10.57	64

a About.

b Backwater from ice.

c No evidence of flow during year.

46. Lone Man Coulee near Valier, Mont.

Location.--Lat $48^{\circ}14'$, long $112^{\circ}14'$, in SE $\frac{1}{4}$ sec.27, T.29 N., R.5 W., at culvert on county road, 5 miles south of Valier.

Station number.--6-1003

Drainage area.--14.1 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 27, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	May 1, 1960	0.58	32
1961	May 17, 1961	.36	22
1962	Jan. 29, 1962	b 2.87	a 15
1963	Aug. 19, 1963	.49	27
1964	June 8, 1964	2.38	1,740

47. Marias River tributary No. 3 near Chester, Mont.

Location.--Lat $48^{\circ}14'$, long $110^{\circ}53'$, in NE $\frac{1}{4}$ sec.36, T.29 N., R.6 E., at culvert on State Secondary Highway 223, 2.1 miles south of Marias River bridge and 20 miles southeast of Chester.

Station number.--6-1016

Drainage area.-- 0.32 sq mi.

Records available.-- May 1962 to

Gage.--Crest-stage gage installed Apr. 18, 1963

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e May 21, 1962	3.18	29
1963	July 4, 1963	1.20	9
1964	June 8, 1964	1.37	11

a About.

b Backwater from ice.

e Prior to installation of gage.

48. Cottonwood Creek tributary near Chester, Mont.

Location.--Lat $48^{\circ}27'$, long $111^{\circ}05'$, near center of east line of sec.9, T.31 N., R.5 E., at culvert on county road $3\frac{1}{2}$ miles south of Tiber Siding on Great Northern Railway and U. S. Highway 2, $6\frac{1}{2}$ miles southwest of Chester.

Station number.--6-1017

Drainage area.-- 2.28 sq mi.

Records available.-- April 1963 to

Gage.--Crest-stage gage installed Apr. 17, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	June 28, 1963	4.08	99
1964	June 8, 1964	.98	a 10

49. Cottonwood Creek tributary No. 2 near Chester, Mont.

Location.--Lat $48^{\circ}20'$, long $110^{\circ}57'$, in NW $\frac{1}{4}$ sec.27, T.30 N., R.6 E., at bridge on State Secondary Highway 223, $5\frac{1}{2}$ road miles north of Marias River bridge, and $12\frac{1}{2}$ miles south of Chester.

Station number.--6-1018

Drainage area.-- 24.6 sq mi.

Records available.-- April 1963 to

Gage.--Crest-stage gage installed Apr. 17, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	--	--	(c)
1964	June 8, 1964	2.35	75

a About

c No evidence of flow during year.

50. Dead Indian Coulee near Fort Benton, Mont.

Location.--Lat 48°05', long 110°50', in center of sec.21, T.27 N., R.7 E., at culvert on State Secondary Highway 223, 20 miles northwest of Fort Benton.

Station number.--6-1019

Drainage area.-- 2.73 sq mi.

Records available.--April 1963 to

Gage.--Crest-stage gage installed Apr. 18, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	--	--	(c)
1964	May 3, 1964	2.19	13

51. Dry Fork Coulee tributary near Loma, Mont.

Location.--Lat 47°57', long 110°33', in SW $\frac{1}{4}$ sec.2, T.25 N., R.9 E., at culvert on county road, 2 miles west of Loma.

Station number.--6-1021

Drainage area.--0.84 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 25, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	e Mar. 1, 1959	4.02	71
1960	Mar. 17, 1960	.41	a 2
1961	May 31, 1961	b 1.42	a 1
1962	May 21, 1962	.85	6
1963	Aug. 25, 1963	1.54	16
1964	Aug. 19, 1964	1.06	8

a About.

b Backwater from ice.

c No evidence of flow during year.

e Prior to installation of gage.

52. Marias River tributary at Loma, Mont.

Location.--Lat 47°57', long 110°31', in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.1, T.25 N., R.9 E., at bridge on county road, five eighths of a mile west of Loma.

Station number.--6-1022

Drainage area.--1.62 sq mi.

Records available.--August 1955 to

Gage.--Crest-stage gage installed Aug. 18, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1956	1956	b 0.8	a 5
1957	Mar. 1, 1957	b 1.74	a 3
1958	Mar. 29, 1958	.68	a 4
1959	Mar. 1, 1959	b 2.9	a 12
1960	Mar. 17, 1960	1.50	a 6
1961	--	--	(c)
1962	May 21, 1962	2.11	a 20
1963	Feb. 4, 1963	b 1.88	a 10
1964	Aug. 19, 1964	b 1.58	Not determined

53. Marias River tributary No. 2 at Loma, Mont.

Location.--Lat 47°57', long 110°30', in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.12, T.25 N., R.9 E., at culvert on approach to U. S. Highway 87, a quarter of a mile north of Loma.

Station number.--6-1023

Drainage area.--0.25 sq mi.

Records available.--August 1955 to

Gage.--Crest-stage gage installed Aug. 18, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1956	May 27, 1956	2.97	a 20
1957	Mar. 1, 1957	b 2.46	a 10
1958	Mar. 29, 1958	b 1.40	a 1
1959	February 1959	1.01	a 1
1960	Mar. 17, 1960	b 1.73	a 2
1961	--	--	(c)
1962	Mar. 17, 1962	b 1.55	a 2
1963	June 28, 1963	2.60	a 15
1964	Aug. 19, 1964	1.38	2

a About.

b Backwater from ice or debris.

c No evidence of flow during year.

54. Bruce Coulee tributary near Choteau, Mont.

Location.--Lat 47°44', long 112°15', near center of sec.21, T.23 N., R.5 W., at culvert on county road, 1.2 miles west of State Highway 287, 6 miles southwest of Choteau.

Station number.--6-1058

Drainage area.-- 1.70 sq mi.

Records available.-- April 1963 to

Gage.--Crest-stage gage installed Apr. 16, 1963

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	June 28, 1963	0.65	a 18
1964	June 8, 1964	1.76	148

55. Kinley Coulee near Dutton, Mont.

Location.--Lat 47°51', long 111°36', in center of north line of sec.15, T.24 N., R.1 E., at culverts on county road, 5.1 miles east of Dutton on Diamond Valley Road.

Station number.--6-1082

Drainage area.-- 9.67 sq mi.

Records available.-- April 1963 to

Gage.--Crest-stage gage installed Apr. 17, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	--	--	(c)
1964	June 21, 1964	8.0	364

a About.

c No evidence of flow during year.

56. Kinley Coulee tributary near Dutton, Mont.

Location.--Lat 47°51', long 111°33', on north line of NW $\frac{1}{4}$ sec.13, T.24 N., R.1 E., at culverts on county road, 6.5 miles east of Dutton on Diamond Valley Road.

Station number.--6-1083

Drainage area.-- 2.65 sq mi.

Records available.-- April 1963 to

Gage.--Crest-stage gage installed Apr. 16, 1963.

Annual maximum data.--

<u>Water Year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	Sept. 16, 1963	1.28	18
1964	June 8, 1964	2.98	76

57. Judith River tributary near Utica, Mont.

Location.--Lat 46°53', long 110°16', in SW $\frac{1}{4}$ sec.13, T.13 N., R.11 E., at bridge on county road, 10 miles southwest of Utica.

Station number.--6-1099

Drainage area.--7.17 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 21, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Mar. 18, 1960	0.65	Not determined
1961	--	--	(c)
1962	June 14, 1962	1.00	Not determined
1963	Feb. 4, 1963	b 3.33	Not determined
1964	--	--	(c)

b Backwater from ice.

c No evidence of flow during year.

58. Judith River tributary No. 2 near Utica, Mont.

Location.--Lat 46°54', long 110°15', in SE $\frac{1}{4}$ sec.7, T.13 N., R.12 E., at bridge on county road, 9 $\frac{1}{2}$ miles southwest of Utica.

Station number.--6-1099.5

Drainage area.--6.97 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 21, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Mar. 18, 1960	0.70	Not determined
1961	--	--	(c)
1962	June 14, 1962	.90	Not determined
1963	Feb. 4, 1963	1.00	Not determined
1964	June 8, 1964	1.29	Not determined

59. Casino Creek tributary near Lewistown, Mont.

Location.--Lat 47°00', long 109°26', in NE $\frac{1}{4}$ sec.9, T.14 N., R.18 E., at culverts on county road, 5 miles south of Lewistown.

Station number.--6-1117

Drainage area.--3.53 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 21, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Mar. 18, 1960	0.94	10
1961	--	--	(c)
1962	May 21, 1962	3.24	35
1963	May 12, 1963	.54	5
1964	May 3, 1964	3.67	38

c No evidence of flow during year.

60. Cottonwood Creek near Moore, Mont.

Location.--Lat 46°59', long 109°29', in NW $\frac{1}{4}$ sec.18, T.14 N., R.18 E., 30 ft downstream from bridge on county road, 9 $\frac{1}{2}$ miles east of Moore, and 12 miles upstream from mouth.

Station number.--6-1121

Drainage area.--47.9 sq mi.

Records available.--August 1957 to September 1963 (continuous record), October 1963 to

Gage.--Water-stage recorder.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	May 22, 1958	3.78	57
1959	June 7, 1959	5.42	143
1960	June 4, 1960	4.50	102
1961	June 1, 1961	4.83	101
1962	May 22, 1962	6.77	683
1963	June 15, 1963	4.75	216
1964	June 9, 1964	7.68	1,220

61. Missouri River tributary near Landusky, Mont.

Location.--Lat 47°38', long 108°42', in NW $\frac{1}{4}$ sec.31, T.22 N., R.24 E., at culvert on county road 0.4 mile west of U. S. Highway 191 along south side of Missouri River, 19 miles south of Landusky.

Station number.--6-1151

Drainage area.-- 3.39 sq mi.

Records available.--June 1962 to

Gage.--Crest-stage gage installed May 14, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e June 15, 1962	--	> 500
1963	July 18, 1963	3.75	111
1964	May 3, 1964	.04	Not determined

e Prior to installation of gage.

62. Duval Creek near Landusky, Mont.

Location.--Lat 47°45', long 108°42', in center of sec.13, T.23 N., R.23 E., at culvert on U. S. Highway 191, 10.0 road miles north of the Fred L. Robinson Bridge over the Missouri River, 11 miles southwest of Landusky.

Station number.--6-1153

Drainage area.-- 3.31 sq mi.

Records available.-- May 1963 to

Gage.--Crest-stage gage installed May 14, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	May 11, 1963	2.13	46
1964	Aug. 20, 1964	4.23	Not determined

63. Antelope Creek tributary near Harlowton, Mont.

Location.--Lat 46°39', long 109°58', in NE $\frac{1}{4}$ sec.8, T.10 N., R.14 E., at culvert on county road, 18.3 miles northwest of Harlowton.

Station number.--6-1206

Drainage area.--0.47 sq mi.

Records available.--July 1955 to

Gage.--Crest-stage gage installed July 13, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1956	June 15, 1956	1.36	13
1957	March 1957	.56	7
1958	--	--	(c)
1959	March 1959	1.72	3
1960	Mar. 18, 1960	2.04	6
1961	June 13, 1961	.25	(c)
1962	Mar. 26, 1962	1.40	1
1963	Feb. 4, 1963	1.32	1
1964	--	--	(c)

c No evidence of flow during year.

64. Antelope Creek tributary near mouth, near Harlowton, Mont.

Location.--Lat 46°37', long 109°57', in NW $\frac{1}{4}$ sec.22, T.10 N., R.14 E., at bridge on county road, 16.3 miles northwest of Harlowton.

Station number.--6-1207

Drainage area.--1.92 sq mi.

Records available.--July 1955 to

Gage.--Crest-stage gage installed July 12, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1956	Mar. 17, 1956	1.60	207
1957	June 16, 1957	1.51	188
1958	May 23, 1958	.17	17
1959	Mar. 20, 1959	.75	65
1960	Mar. 18, 1960	.42	33
1961	--	--	(c)
1962	Mar. 26, 1962	.28	20
1963	Feb. 4, 1963	b 1.49	a 50
1964	March 1964	.54	a 45

65. Antelope Creek tributary No. 2 near Harlowton, Mont.

Location.--Lat 46°28', long 109°49', in SE $\frac{1}{4}$ sec.10, T.8 N., R.15 E., at E. S. Bacon ranch, 1 $\frac{1}{2}$ miles north of Harlowton.

Station number.--6-1208

Drainage area.--21.2 sq mi.

Records available.--July 1955 to

Gage.--Crest-stage gage installed July 13, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1956	June 15, 1956	3.51	820
1957	June 21, 1957	1.95	190
1958	June 1958	.36	35
1959	Mar. 20, 1959	.57	80
1960	--	(f)	< 25
1961	--	(f)	< 25
1962	June 16, 1962	5.56	3,230
1963	Feb. 4, 1963	b .61	a 20
1964	June 8, 1964	1.41	a 130

a About.

b Backwater from ice or debris.

c No evidence of flow during year.

f Peak discharge did not reach bottom of gage.

66. Antelope Creek at Harlowton, Mont.

Location.--Lat 46°26', long 109°49', in NE $\frac{1}{4}$ sec.22, T.8 N., R.15 E., on overpass on U. S. Highway 12 at Harlowton.

Station number.--6-1209

Drainage area.--88.7 sq mi.

Records available.--July 1955 to

Gage.--Crest-stage gage installed July 12, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1950	e June 17, 1950	16.73	24,400
1954	e Aug. 15, 1954	4.52	1,600
1955	e June 26, 1955	3.01	591
1956	June 15, 1956	3.28	800
1957	June 21, 1957	1.52	170
1958	--	(f)	< 30
1959	--	(f)	< 30
1960	--	(f)	< 30
1961	--	(f)	< 30
1962	June 16, 1962	4.02	1,280
1963	Feb. 4, 1963	(f)	< 30
1964	--	(f)	< 30

67. Currant Creek near Roundup, Mont.

Location.--Lat 46°22', long 108°39', in SW $\frac{1}{4}$ sec.7, T.7 N., R.25 E., at bridge on U. S. Highway 12, 7 miles southwest of Roundup.

Station number.--6-1263

Drainage area.--220 sq mi.

Records available.--May 1958 to

Gage.--Crest-stage gage installed May 9, 1958.

Cooperation.--Montana State Engineer

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	July 19, 1958	2.12	a 40
1959	Mar. 1, 1959	6.65	780
1960	--	--	Unknown
1961	July 21, 1961	1.86	31
1962	June 15, 1962	5.28	395
1963	June 5, 1963	b 3.45	a 20
1964	June 8, 1964	3.80	140

a About.

b Backwater from ice or debris.

e Prior to installation of gage.

f Peak discharge did not reach bottom of gage.

68. South Willow Creek tributary near Roundup, Mont.

Location.--Lat $46^{\circ}31'$, long $108^{\circ}35'$, in center $E\frac{1}{2}$ sec.28, T.9 N., R.25 E., at culvert on U. S. Highway 87 between Roundup and Grass Range, $4\frac{1}{2}$ miles north of Roundup.

Station number.--6-1271

Drainage area.-- 1.38 sq mi.

Records available.-- May 1962 to

Gage.--Crest-stage gage installed Apr. 28, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	May 13, 1962	8.34	461
1963	1963	--	(c)
1964	June 8, 1964	1.77	Not determined

69. Musselshell River tributary near Musselshell, Mont.

Location.--Lat $46^{\circ}30'$, long $108^{\circ}15'$, in $SW\frac{1}{4}$ sec.30, T.9 N., R.28 E., at bridge on U. S. Highway 12, 7.0 road miles east of Gage railroad siding, 2.0 miles west of road to Delphia, and 8 miles west of Musselshell.

Station number.--6-1272

Drainage area.-- 10.8 sq mi.

Records available.-- May 1963 to

Gage.--Crest-stage gage installed May 15, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	1963	--	(c)
1964	1964	--	(c)

c No evidence of flow during year.

70. Home Creek near Melstone, Mont.

Location.--Lat $46^{\circ}38'$, long $107^{\circ}47'$, in NE $\frac{1}{4}$ sec.14, T.10 N., R.31 E., at bridge on U. S. Highway 12, 2.2 miles east of Musselshell River bridge, 5 miles northeast of Melstone, and 11 miles west of Sumatra.

Station number.--6-1275.3

Drainage area.-- 31.2 sq mi.

Records available.-- May 1963 to

Gage.--Crest-stage gage installed May 16, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	1963	--	(c)
1964	1964	--	(c)

71. Musselshell River tributary No. 2 near Melstone, Mont.

Location.--Lat $46^{\circ}39'$, long $107^{\circ}49'$, in center E $\frac{1}{2}$ sec.9, T.10 N., R.31 E., at culvert on county road, 2.8 miles north of U. S. Highway 12, 4 miles northeast of Melstone.

Station number.--6-1275.7

Drainage area.--5.96 sq mi.

Records available.-- May 1963 to

Gage.--Crest-stage gage installed May 16, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	May 11, 1963	2.67	64
1964	Aug. 20, 1964	3.53	Not determined

c No evidence of flow during year.

72. South Fork Bear Creek near Roy, Mont.

Location.--Lat $47^{\circ}12'$, long $108^{\circ}48'$, in SW $\frac{1}{4}$ sec.28, T.17 N., R.23 E., at bridge on State Highway 19, 10.2 miles south of U. S. Highway 191, 11.2 miles north of U. S. Highway 87 and State Highway 18, 12 miles southeast of Roy, and 12 miles north of Grass Range.

Station number.--6-1284 (prior to 1964, published as 6-1276.3).

Drainage area.-- 39.6 sq mi.

Records available.--June 1962 to

Gage.--Crest-stage gage installed May 15, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	June 15, 1962	2.67	Not determined
1963	May 11, 1963	1.37	Not determined
1964	June 8, 1964	5.05	Not determined

73. South Fork Bear Creek tributary near Roy, Mont.

Location.--Lat $47^{\circ}14'$, long $108^{\circ}48'$, in SW $\frac{1}{4}$ sec.16, T.17 N., R.23 E., at culvert on State Highway 19, 8.7 road miles south of U. S. Highway 191, 1.7 miles north of South Fork Bear Creek, 10 $\frac{1}{2}$ miles southeast of Roy, and 14 miles north of Grass Range.

Station number.-- 6-1285 (prior to 1964, published as 6-1276.7).

Drainage area.-- 5.40 sq mi.

Records available.--June 1962 to

Gage.--Crest-stage gage installed May 14, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	June 15, 1962	1.90	28
1963	June 25, 1963	.42	Not determined
1964	July 5, 1964	2.88	Not determined

74. Box Elder Creek tributary near Winnett, Mont.

Location.--Lat 47°01', long 108°10', in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.34, T.15 N., R.28 E., a quarter of a mile north of State Highway 20 and 8 miles east of Winnett.

Station number.--6-1289 (prior to 1964, published as 6-1277).

Drainage area.--16.2 sq mi.

Records available.--July 1955 to

Gage.--Crest-stage gage installed July 14, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1955	Aug. 23, 1955	2.20	132
1956	June 18, 1956	2.11	123
1957	Feb. 28, 1957	.66	27
1958	July 31, 1958	2.86	193
1959	Mar. 1, 1959	3.86	412
1960	Mar. 18, 1960	3.37	275
1961	Aug. 10, 1961	.90	40
1962	June 15, 1962	b 8.3	a 125
1963	May 11, 1963	2.87	194
1964	May 3, 1964	1.89	105

75. North Fork McDonald Creek tributary near Heath, Mont.

Location.--Lat 47°04', long 109°13', in NE $\frac{1}{4}$ sec.17, T.15 N., R.20 E., at culvert on U. S. Highway 87 and State Highway 20, 5 miles northeast of Heath.

Station number.--6-1291 (prior to 1964, published as 6-1282).

Drainage area.--2.24 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 19, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Mar. 18, 1960	1.04	Not determined
1961	Oct. 1, 1960	.02	Not determined
1962	May 21, 1962	1.21	Not determined
1963	May 12, 1963	.38	Not determined
1964	June 8, 1964	1.51	Not determined

a About.

b Backwater from ice.

76. Alkali Creek near Heath, Mont.

Location.--Lat $47^{\circ}05'$, long $109^{\circ}09'$, in SE $\frac{1}{4}$ sec.11, T.15 N., R.20 E., at bridge on county road, $7\frac{1}{2}$ miles northeast of Heath.

Station number.--6-1292 (prior to 1964, published as 6-1283).

Drainage area.--3.76 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 19, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Mar. 18, 1960	1.83	a 60
1961	Feb. 20, 1961	b .62	a 15
1962	June 15, 1962	7.4	757
1963	1963	--	< 1
1964	June 8, 1964	4.12	Not determined

77. South Fork McDonald Creek tributary near Grass Range, Mont.

Location.--Lat $47^{\circ}00'$, long $108^{\circ}47'$, in center of sec.3, T.14 N., R.23 E., at culvert on U. S. Highway 87, 1.4 road miles south of the approach road to Grass Range, $1\frac{1}{2}$ miles southeast of Grass Range.

Station number.--6-1294 (prior to 1964, published as 6-1284).

Drainage area.-- 0.51 sq mi.

Records available.--May 1963 to

Gage.--Crest-stage gage installed May 15, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	June 29, 1963	0.16	6
1964	June 8, 1964	2.42	Not determined

a About.

b Backwater from ice.

78. McDonald Creek at Winnett, Mont.

Location.--Lat 47°00', long 108°21', in NW $\frac{1}{4}$ sec.7, T.14 N., R.27 E., at bridge on State Secondary Highway 244, three-quarters of a mile south of Winnett.

Station number.--6-1295 (prior to 1964, published as 6-1285).

Drainage area.--421 sq mi.

Records available.--April 1930 to December 1932, February 1934 to September 1945 and February 1953 to September 1956 (continuous record), October 1956 to

Gage.--Crest-stage gage installed Sept. 19, 1960. Prior to Oct. 1, 1956 wire-weight gage and Oct. 1, 1956 to March 1960, crest-stage gage 1 mile downstream at different datum.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1931	Mar. 1-3, 1931	13.30	d 4.2
1932	June 9, 1932	20.40	d 562
1934	June 9, 1934	18.12	d 351
1935	July 8, 1935	18.30	d 371
1936	Mar. 5, 1936	--	a 220
1937	July 13, 1937	18.75	401
1938	July 8, 1938	18.71	d 328
1939	June 19, 1939	4.55	270
1940	Mar. 3, 1940	--	a 75
1941	June 28, 1941	5.42	482
1942	May 15, or 16, 1942	7.5	900
1943	June 8, 18, 1943	5.59	d 549
1944	June 20, 1944	7.40	853
1945	June 7, 1945	2.48	d 180
1953	June 10, 1953	5.66	d 424
1954	Aug. 5, 1954	3.00	47
1955	Apr. 11, 1955	4.39	241
1956	Aug. 3, 1956	2.55	88
1957	Mar. 19, 1957	2.20	67
1958	July 19, 1958	3.23	150
1959	Mar. 1, 1959	b 6.84	Not determined
1960	Mar. 19, 1960	4.44	Not determined
1961	Mar. 20, 1961	1.25	.1
1962	June 17, 1962	4.20	485
1963	Feb. 4, 1963	--	a 250
1964	June 10, 1964	a 10.0	1,440

a About

b Backwater from ice or beaver dam

d Maximum observed.

79. Gorman Coulee near Cat Creek, Mont.

Location.--Lat 47°01', long 108°06', in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.31, T.15 N., R.29 E.,
at culvert on State Highway 20, 6 miles southwest of Cat Creek.

Station number.--6-1297 (prior to 1964, published as 6-1287).

Drainage area.--2.32 sq mi.

Records available.--July 1955 to

Gage.--Crest-stage gage installed July 14, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage Height (ft)</u>	<u>Discharge (cfs)</u>
1955	Aug. 23, 1955	5.59	385
1956	June 18, 1956	2.73	126
1957	Aug. 30, 1957	1.37	43
1958	July 19, 1958	2.09	83
1959	June 26, 1959	1.84	68
1960	--	--	Unknown
1961	--	--	(c)
1962	May 16, 1962	1.06	28
1963	--	--	< 5
1964	Aug. 20, 1964	1.89	70

80. Gorman Coulee tributary near Cat Creek, Mont.

Location.--Lat 47°01', long 108°06', in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.31, T.15 N., R.29 E.,
at culvert on State Highway 20, 6 miles southwest of Cat Creek.

Station number.--6-1298 (prior to 1964, published as 6-1288).

Drainage area.--0.81 sq mi.

Records available.--May 1955 to

Gage.--Crest-stage gage installed May 27, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1955	Aug. 23, 1955	3.02	159
1956	June 18, 1956	.96	32
1957	Aug. 30, 1957	1.24	44
1958	July 31, 1958	2.52	122
1959	Sept. 22, 1959	.28	10
1960	Mar. 18, 1960	.37	12
1961	Aug. 10, 1961	.50	15
1962	May 16, 1962	.55	17
1963	--	--	< 5
1964	Aug. 20, 1964	1.85	78

c No evidence of flow during year.

81. Cat Creek near Cat Creek, Mont.

Location.--Lat 47°03', long 108°01', in SW $\frac{1}{4}$ sec.23, T.15 N., R.29 E., at culvert on county road, 2 $\frac{1}{2}$ miles south of Cat Creek.

Station number.--6-1306

Drainage area.--36.5 sq mi.

Records available.--April 1958 to

Gage.--Crest-stage gage installed Apr. 19, 1958.

Cooperation.--Montana State Engineer.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	Aug. 15, 1958	2.76	92
1959	Mar. 12, 1959	4.58	170
1960	Mar. 18, 1960	5.85	379
1961	June 23, 1961	1.27	40
1962	June 16, 1962	6.19	748
1963	June 29, 1963	.72	26
1964	Aug. 20, 1964	2.61	Not determined

82. Second Creek tributary near Jordan, Mont.

Location.--Lat 47°12', long 106°48', in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.31, T.17 N., R.39 E., at culvert on State Highway 22, 11 miles southeast of Jordan.

Station number.--6-1308

Drainage area.--0.75 sq mi.

Records available.--March 1958 to

Gage.--Crest-stage gage installed Mar. 18, 1958.

Cooperation.--Montana State Engineer.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1954	e Aug. 16, 1954	9.64	281
1958	--	--	(c)
1959	Mar. 17, 1959	1.22	Not determined
1960	Mar. 18, 1960	1.75	Not determined
1961	--	--	(c)
1962	Mar. 18, 1962	1.10	Not determined
1963	Feb. 4, 1963	b 2.00	Not determined
1964	June 18, 1964	9.62	Not determined

b Backwater from ice.

c No evidence of flow during year

e Prior to installation of gage; peak discharge computed from high-water marks along highway embankment at culvert.

83. Second Creek tributary No. 2 near Jordan, Mont.

Location.--Lat 47°12', long 106°49', in NW¼ sec.25, T.17 N., R.38 E., at culvert on State Highway 22, 9½ miles southeast of Jordan.

Station number.--6-1308.5

Drainage area.--1.90 sq mi.

Records available.--March 1958 to

Gage.--Crest-stage gage installed Mar. 18, 1958.

Cooperation.--Montana State Engineer

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	June 1958	0.86	Not determined
1959	Mar. 17, 1959	1.7	Not determined
1960	Mar. 18, 1960	1.98	Not determined
1961	Sept. 11, 1961	-.37	a 2
1962	Mar. 18, 1962	.51	Not determined
1963	Feb. 26, 1963	.82	Not determined
1964	June 18, 1964	8.40	Not determined

84. Second Creek tributary No. 3 near Jordan, Mont.

Location.--Lat 47°13', long 106°50', in NE¼ sec.23, T.17 N., R.38 E., at culvert on State Highway 22, 8½ miles southeast of Jordan.

Station number.--6-1309.

Drainage area.--0.60 sq mi.

Records available.--July 1958 to

Gage.--Crest-stage gage installed July 23, 1958.

Cooperation.--Montana State Engineer.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	--	--	(c)
1959	Mar. 3, 1959	1.77	Not determined
1960	Mar. 18, 1960	1.03	Not determined
1961	June 1, 1961	.23	a 3
1962	July 14, 1962	.81	Not determined
1963	July 18, 1963	.47	Not determined
1964	June 18, 1964	13.32	Not determined

a About

c No evidence of flow during year.

85. Little Dry Creek near Van Norman, Mont.

Location.--Lat 47°21', long 106°22', in SE $\frac{1}{4}$ sec.4, T.18 N., R.42 E., at bridge on State Highway 20, 1 $\frac{1}{2}$ miles southeast of Van Norman.

Station number.--6-1309.5

Drainage area.--1,224 sq mi.

Records available.--May 1958 to

Gage.--Crest-stage gage installed May 5, 1958.

Cooperation.--Montana State Engineer.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	July 6, 1958	0.83	160
1959	Mar. 18, 1959	6.80	5,200
1960	Mar. 20, 1960	b 7.6	a 4,000
1961	Sept. 11, 1961	3.08	1,320
1962	Mar. 22, 1962	2.32	850
1963	Feb. 6, 1963	b 2.49	a 800
1964	July 5, 1964	2.88	1,200

86. Livermore Creek near Babb, Mont.

Location.--Lat 48°46', long 113°11', in NE $\frac{1}{4}$ sec.28, T.35 N., R.12 W., at bridge on State Secondary Highway 464, 13 $\frac{1}{2}$ miles southeast of Babb.

Station number.--6-1322.5

Drainage area.--25.0 sq mi.

Records available.--August 1961 to

Gage.--Crest-stage gage installed Aug. 13, 1961.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1961	--	--	Unknown
1962	Apr. 13, 1962	3.43	152
1963	July 5, 1963	2.62	75
1964	June 8, 1964	--	4,880

a About

b Backwater from ice.

87. Middle Fork Milk River near Babb, Mont.

Location.--Lat 48°51', long 113°13', in SE $\frac{1}{4}$ sec.30, T.36 N., R.12 W., at culvert on State Secondary Highway 464, 10 miles east of Babb.

Station number.--6-1323

Drainage area.--14.0 sq mi.

Records available.--August 1961 to September 1964 (discontinued).

Gage.--Crest-stage gage installed Aug. 13, 1961. Altitude of gage is 4,810 ft (from topographic map).

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1961	--	--	Unknown
1962	Apr. 13, 1962	2.62	107
1963	July 5, 1963	b 2.12	a 30
1964	June 8, 1964	2.96	558

88. Dry Fork Milk River near Babb, Mont.

Location.--Lat 48°50', long 113°12', in SE $\frac{1}{4}$ sec.32, T.36 N., R.12 W., at bridge on State Secondary Highway 464, 11 miles east of Babb.

Station number.--6-1324

Drainage area.--17.4 sq mi.

Records available.--August 1961 to

Gage.--Crest-stage gage installed Aug. 13, 1961.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1961	--	--	Unknown
1962	Apr. 13, 1962	3.96	394
1963	July 5, 1963	2.41	70
1964	June 8, 1964	5.20	1,880

a About.

b Backwater from ice or debris.

89. Van Cleeve Coulee tributary near Sunburst, Mont.

Location.--Lat $48^{\circ}53'$, long $111^{\circ}49'$, on north line of NE $\frac{1}{4}$ sec.14, T.36 N., R. 2 W., at culverts on county road, 3.7 road miles east of interchange on Interstate 15 at Sunburst.

Station number.--6-1348

Drainage area.-- 10.8 sq mi.

Records available.--April 1963 to

Gage.--Crest-stage gage installed Apr. 17, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	--	--	(c)
1964	May 3, 1964	2.08	35

90. Sage Creek tributary at Hingham, Mont.

Location.--Lat $48^{\circ}34'$, long $110^{\circ}25'$, in center sec.3, T.32 N., R.10 E., at culvert on farm road, half a mile northeast of Hingham.

Station number.--6-1379

Drainage area.--1.08 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 27, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Mar. 17, 1960	1.51	14
1961	--	--	(c)
1962	June 14, 1962	5.46	299
1963	July 3, 1963	2.27	26
1964	April 1964	.06	.1

c No evidence of flow during year.

91. South Fork Spring Coulee near Havre, Mont.

Location.--Lat 48°25', long 109°50', in NE $\frac{1}{4}$ sec.31, T.31 N., R.15 E., at culvert on county road, 12 miles southwest of Havre.

Station number.--6-1387

Drainage area.--6.47 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 26, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Mar. 17, 1960	2.04	33
1961	May 31, 1961	.04	2
1962	Mar. 18, 1962	1.68	25
1963	June 22, 1963	2.06	34
1964	May 3, 1964	.10	2

92. Spring Coulee near Havre, Mont.

Location.--Lat 48°25', long 109°52', in NW $\frac{1}{4}$ sec.25, T.31 N., R.14 E., at culverts on county road, 13 miles southwest of Havre.

Station number.--6-1388

Drainage area.--17.8 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 26, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	e Mar. 11, 1959	5.60	257
1960	Mar. 17, 1960	--	a 10
1961	--	--	(c)
1962	Mar. 18, 1962	1.32	48
1963	Feb. 3, 1963	1.35	46
1964	--	--	(c)

a About

c No evidence of flow during year.

e Prior to installation of gage; peak discharge computed from high-water marks along highway embankment at culvert.

93. Big Sandy Creek near Assinniboine, Mont.

Location.--Lat 48°32', long 109°50', in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.18, T.32 N., R.15 E.,
2 miles northwest of Assinniboine.

Station number.--6-1395

Drainage area.--1,805 sq mi.

Records available.--February 1946 to November 1953 (continuous record),
April 1955 to

Gage.--Water-stage recorder re-installed Apr. 9, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1946	Feb. 27, 1946	--	g 86
1947	Mar. 21, 1947	9.68	h 2,080
1948	Mar. 22, 1948	--	g 17
1949	Mar. 31, 1949	--	g 5
1950	Mar. 29, 1950	3.88	208
1951	Mar. 23, 1951	5.01	391
1952	Apr. 3, 1952	14.70	5,570
1953	June 6, 1953	6.56	714
1954	--	--	Unknown
1955	Apr. 11, 1955	6.48	698
1956	Mar. 30, 1956	b 6.47	a 550
1957	Feb. 28, 1957	b 5.13	a 250
1958	Mar. 28, 1958	--	a 500
1959	Mar. 11, 1959	7.80	1,100
1960	Mar. 25, 1960	a 4.1	215
1961	June 3, 1961	3.64	132
1962	June 12, 1962	2.54	6
1963	Feb. 6, 1963	2.16	.1
1964	May 19, 1964	6.62	700

a About

b Backwater from ice.

g Maximum daily.

h Maximum recorded.

94. Bullhook Creek near Havre, Mont.

Location.--Lat $48^{\circ}31'$, long $109^{\circ}38'$, in NE $\frac{1}{4}$ sec.27, T.32 N., R.16 E., at bridge on county road, $3\frac{1}{2}$ miles south of Havre.

Station number.--6-1404

Drainage area.--39.6 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 26, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Mar. 18, 1960	1.84	85
1961	--	--	(c)
1962	Mar. 18, 1962	1.49	55
1963	Feb. 24, 1963	.86	13
1964	May 4, 1964	1.38	47

95. Milk River tributary near Lohman, Mont.

Location.--Lat $48^{\circ}35'$, long $109^{\circ}26'$, in SW $\frac{1}{4}$ sec.30, T.33 N., R.18 E., at culvert on U. S. Highway 2, 1.2 miles west of Lohman.

Station number.--6-1419

Drainage area.--0.16 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 26, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Mar. 15, 1960	0.24	1.5
1961	--	--	(c)
1962	--	--	(c)
1963	--	--	(c)
1964	--	--	(c)

c No evidence of flow during year.

96. Black Coulee near Malta, Mont.

Location.--Lat 48°13', long 108°02', in NE $\frac{1}{4}$ sec.1, T.28 N., R.28 E., at bridge on U. S. Highway 191, 12 miles southwest of Malta.

Station number.--6-1551

Drainage area.--6.64 sq mi.

Records available.--July 1955 to

Gage.--Crest-stage gage installed July 27, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1956	July 3, 1956	1.98	Not determined
1957	Mar. 19, 1957	1.85	Not determined
1958	April 1958	1.02	Not determined
1959	Mar. 13, 1959	2.93	Not determined
1960	Mar. 18, 1960	3.21	Not determined
1961	May 30, 1961	1.04	Not determined
1962	July 18, 1962	2.96	Not determined
1963	Feb. 5, 1963	2.93	Not determined
1964	May 3, 1964	3.16	Not determined

97. Alkali Creek near Malta, Mont.

Location.--Lat 48°16', long 107°58', near center sec.16, T.29 N., R.29 E., at bridge on U. S. Highway 191, 8 $\frac{1}{4}$ miles southwest of Malta.

Station number.--6-1552

Drainage area.--162 sq mi.

Records available.--July 1955 to

Gage.--Crest-stage gage installed July 27, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1956	Mar. 19, 1956	b 0.85	a 45
1957	Mar. 21, 1957	1.69	355
1958	Mar. 25, 1958	.82	104
1959	Mar. 13, 1959	b 3.0	a800
1960	--	--	Unknown
1961	--	(f)	<220
1962	July 14, 1962	2.68	750
1963	Feb. 5, 1963	b 3.09	a700
1964	May 4, 1964	1.36	245

a About.

b Backwater from ice.

f Peak discharge did not reach bottom of gage.

98. Disjardin Coulee near Malta, Mont.

Location.--Lat 48°16', long 107°58', in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.16, T.29 N., R.29 E., at bridge on U. S. Highway 191, 8 miles southwest of Malta.

Station number.--6-1553

Drainage area.--3.42 sq mi.

Records available.--July 1955 to

Gage.--Crest-stage gage installed July 26, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1956	Aug. 5, 1956	3.22	160
1957	Mar. 19, 1957	1.02	22
1958	--	--	(c)
1959	Mar. 18, 1959	1.62	132
1960	Mar. 18, 1960	.61	32
1961	May 30, 1961	.44	20
1962	July 18, 1962	2.23	a200
1963	Feb. 5, 1963	b 3.25	a100
1964	Aug. 20, 1964	.38	7

99. South Fork Taylor Creek near Malta, Mont.

Location.--Lat 48°19', long 107°55', in SE $\frac{1}{4}$ sec.26, T.30 N., R.29 E., at bridge on U. S. Highway 191, 3 $\frac{1}{2}$ miles southwest of Malta.

Station number.--6-1554

Drainage area.--5.08 sq mi.

Records available.--July 1955 to

Gage.--Crest-stage gage installed July 28, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1956	Mar. 19, 1956	1.75	52
1957	Mar. 19, 1957	1.43	22
1958	--	--	(c)
1959	July 13, 1959	1.94	84
1960	Mar. 18, 1960	1.89	75
1961	July 30, 1961	.90	2
1962	July 18, 1962	1.54	65
1963	Feb. 5, 1963	.95	20
1964	--	--	(c)

a About.

b Backwater from ice.

c No evidence of flow during year.

100. Unger Creek near Vandalia, Mont.

Location.--Lat 48°22', long 106°48', in SW $\frac{1}{4}$ sec.9, T.30 N., R.38 E., at bridge on U. S. Highway 2, 4 $\frac{1}{2}$ miles northeast of Vandalia.

Station number.--6-1723

Drainage area.--11.1 sq mi.

Records available.--April 1958 to

Gage.--Crest-stage gage installed Apr. 15, 1958.

Cooperation.--Montana State Engineer.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	March 1958	0.92	10
1959	Apr. 1, 1959	1.41	32
1960	Mar. 20, 1960	2.32	225
1961	June 13, 1961	1.02	13
1962	July 14, 1962	3.28	575
1963	June 29, 1963	2.23	46
1964	July 19, 1964	1.20	12

101. Mooney Coulee near Tampico, Mont.

Location.--Lat 48°17', long 106°42', in NW $\frac{1}{4}$ sec.7, T.29 N., R.39 E., at bridge on U. S. Highway 2, 5 $\frac{1}{2}$ miles east of Tampico.

Station number.--6-1723.5

Drainage area.--12.8 sq mi.

Records available.--August 1960 to

Gage.--Crest-stage gage installed Aug. 24, 1960.

Cooperation.--Montana State Engineer.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	--	--	Unknown
1961	June 13, 1961	2.37	400
1962	July 14, 1962	2.20	220
1963	Feb. 5, 1963	b 1.30	a 50
1964	--	--	(c)

a About.

b Backwater from ice.

c No evidence of flow during year.

102. East Fork Sand Creek near Vida, Mont.

Location.--Lat 47°48', long 105°37', in NW $\frac{1}{4}$ sec.31, T.24 N., R.48 E., at culverts on county road, 5.8 road miles west from State Highway 13 on Sand Creek road, 6 miles southwest of Vida.

Station number.--6-1755.5

Drainage area.--8.51 sq mi.

Records available.--May 1963 to

Gage.--Crest-stage gage installed May 18, 1963.

Annual Maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	June 6, 1963	4.88	600
1964	June 18, 1964	1.24	94

103. West Fork Wolf Creek near Lustre, Mont.

Location.--Lat 48°23', long 106°00', in SW $\frac{1}{4}$ sec.3, T.30 N., R.44 E., at bridge on county road, 5 miles west of Lustre.

Station number.--6-1756

Drainage area.--6.57 sq mi.

Records available.--June 1955 to

Gage.--Crest-stage gage installed June 9, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1956	June 26, 1956	0.89	Not determined
1957	Apr. 23, 1957	2.24	Not determined
1958	--	--	(c)
1959	Mar. 25, 1959	.68	Not determined
1960	Mar. 18, 1960	1.99	Not determined
1961	Apr. 3, 1961	.33	Not determined
1962	Mar. 25, 1962	.90	Not determined
1963	Mar. 6, 1963	.95	Not determined
1964	Apr. 1, 1964	.95	Not determined

c No evidence of flow during year.

104. East Fork Wolf Creek near Lustre, Mont.

Location.--Lat 48°24', long 105°48', in SE $\frac{1}{4}$ sec.30, T.31 N., R.46 E., at culverts on county road, 4 miles east of Lustre.

Station number.--6-1757

Drainage area.--9.61 sq mi.

Records available.--June 1955 to

Gage.--Crest-stage gage installed June 9, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1956	April 1956	3.24	Not determined
1957	March 1957	3.28	Not determined
1958	March 1958	.58	Not determined
1959	June 21, 1959	.45	Not determined
1960	Mar. 19, 1960	--	a 150
1961	Mar. 5, 1961	--	a 130
1962	June 14, 1962	--	74
1963	Mar. 6, 1963	--	a 40
1964	Apr. 1, 1964	--	a 50

105. Wolf Creek tributary near Wolf Point, Mont.

Location.--Lat 48°14', long 105°46', in sec.29, T.29 N., R.46 E., at bridge on county road, 15 miles northwest of Wolf Point.

Station number.--6-1758

Drainage area.--2.46 sq mi.

Records available.--June 1955 to

Gage.--Crest-stage gage installed June 24, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1955	July 1955	0.50	Not determined
1956	April 1956	1.61	Not determined
1957	March 1957	.89	Not determined
1958	--	--	(c)
1959	Mar. 25, 1959	.97	Not determined
1960	--	--	Unknown
1961	Mar. 5, 1961	.33	Not determined
1962	June 14, 1962	2.46	Not determined
1963	Aug. 26, 1963	.36	Not determined
1964	May 5, 1964	.03	Not determined

a About.

c No evidence of flow during year.

106. Wolf Creek tributary No. 2 near Wolf Point, Mont.

Location.--Lat 48°12', long 105°45', in sec.11, T.28 N., R.46 E., at bridge on county road, 9½ miles northwest of Wolf Point.

Station number.--6-1759

Drainage area.--6.54 sq mi.

Records available.--June 1955 to

Gage.--Crest-stage gage installed June 24, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1955	July 1955	1.50	Not determined
1956	April 1956	1.92	Not determined
1957	July 14, 1957	2.03	Not determined
1958	Mar. 24, 1958	1.62	Not determined
1959	June 20, 1959	3.81	979
1960	Mar. 18, 1960	3.24	Not determined
1961	May 21, 1961	3.00	Not determined
1962	July 1, 1962	4.78	Not determined
1963	July 10, 1963	4.18	Not determined
1964	May 5, 1964	1.56	Not determined

107. Wolf Creek near Wolf Point, Mont.

Location.--Lat 48°06', long 105°41', N $\frac{1}{2}$ sec.17, T.27 N., R.47 E., 2 miles northwest of Wolf Point.

Station number.--6-1765

Drainage area.--251 sq mi.

Records available.--August 1908 to July 1914 and March 1950 to September 1953 (continuous record), 1954, May 1955 to

Gage.--Water-stage recorder re-installed May 6, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1909	--	--	Unknown
1910	Mar. 13-15, 1910	3.9	d 110
1911	Mar. 19-23, 1911	4.45	d 154
1912	Apr. 1, 1912	5.9	d 270
1913	--	--	Unknown
1914	--	--	Unknown
1950	Apr. 18, 1950	5.30	188
1951	Apr. 5, 1951	6.06	324
1952	Apr. 7, 1952	9.25	7,050
1953	June 3, 1953	7.29	1,010
1954	Apr. 4 or 5, 1954	12.9	9,780
1956	Mar. 23, 1956	--	a 60
1957	July 14, 1957	5.29	a 180
1958	Apr. 1, 1958	3.30	a 6
1959	June 21, 1959	6.74	a 330
1960	Mar. 20, 1960	9.71	Not determined
1961	May 22, 1961	5.97	120
1962	June 15, 1962	7.95	1,440
1963	July 11, 1963	5.60	140
1964	May 5, 1964	5.07	52

a About

d Maximum observed

Location.--Lat 47°12', long 105°47', in sec.31, T.17 N., R.47 E., at bridge on county road, 8 miles south of Brockway.

Station number.--6-1770.5

Drainage area.--12.4 sq mi.

Records available.--June 1955 to

Gage.--Crest-stage gage installed June 13, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1955	July 12, 1955	1.46	106
1956	Mar. 2, 1956	1.08	60
1957	July 14, 1957	3.64	505
1958	July 21, 1958	.19	8
1959	Mar. 18, 1959	2.47	273
1960	Aug. 16, 1960	1.65	140
1961	May 31, 1961	1.62	134
1962	July 14, 1962	1.97	190
1963	June 6, 1963	4.30	650
1964	July 5, 1964	1.31	93

109. Duck Creek near Brockway, Mont.

Location.--Lat 47°15', long 105°49', in SE¼ sec.11, T.17 N., R.46 E., at bridge on county road, 5 miles southwest of Brockway.

Station number.--6-1771

Drainage area.--54.0 sq mi.

Records available.--1921-22, miscellaneous measurements only. May 1957 to

Gage.--Crest-stage gage installed May 21, 1957.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1957	July 14, 1957	4.00	640
1958	July 3, 1958	1.05	40
1959	Mar. 18, 1959	5.15	1,000
1960	Mar. 20, 1960	3.57	520
1961	June 1, 1961	-.06	a 1
1962	June 6, 1962	2.59	270
1963	June 6, 1963	4.79	890
1964	July 5, 1964	1.76	a 50

110. Redwater Creek at Brockway, Mont.

Location.--Lat 47°19', long 105°45', in NW¼ sec.20, T.18 N., R.47 E., at bridge on county road, a quarter of a mile northwest of Brockway.

Station number.--6-1771.5

Drainage area.--216 sq mi.

Records available.--January 1958 to

Gage.--Crest-stage gage installed Jan. 16, 1958.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1957	e July 14, 1957	5.8	1,220
1958	July 3, 1958	1.86	130
1959	Mar. 18, 1959	5.53	1,130
1960	Mar. 20, 1960	b 6.94	a 1,000
1961	June 1, 1961	2.26	200
1962	June 6, 1962	5.80	1,220
1963	June 6, 1963	5.45	1,520
1964	July 5, 1964	3.95	790

111. Tusler Creek near Brockway, Mont.

Location.--Lat 47°18', long 105°39', in SE¼ sec.24, T.18 N., R.47 E., at bridge on county road, 4 miles east of Brockway.

Station number.--6-1772

Drainage area.--90.2 sq mi.

Records available.--October 1956 to

Gage.--Crest-stage gage installed Oct. 12, 1956

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1957	Feb. 27, 1957	1.66	200
1958	July 21, 1958	-.22	14
1959	Mar. 18, 1959	b 2.16	a 150
1960	Mar. 20, 1960	1.96	280
1961	Mar. 6, 1961	-.04	18
1962	July 19, 1962	3.36	430
1963	June 6, 1963	2.34	280
1964	July 5, 1964	1.88	215

a About

b Backwater from ice.

e Prior to installation of gage.

112. Tusler Creek tributary near Brockway, Mont.

Location.--Lat 47°18', long 105°41', in NE $\frac{1}{4}$ sec.26, T.18 N., R.47 E., at bridge on county road, 4 miles east of Brockway.

Station number.--6-1772.5

Drainage area.--3.17 sq mi.

Records available.--September 1956 to

Gage.--Crest-stage gage installed Sept. 15, 1956.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1957	July 14, 1957	0.81	Not determined
1958	--	--	(c)
1959	Mar. 18, 1959	.46	Not determined
1960	Aug. 16, 1960	1.10	Not determined
1961	--	--	(c)
1962	--	--	(c)
1963	Feb. 26, 1963	1.49	Not determined
1964	July 5, 1964	7.80	Not determined

113. Redwater Creek tributary near Brockway, Mont.

Location.--Lat 47°21', long 105°41', in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.2, T.18 N., R.47 E., at culvert on State Highway 20, 4 miles northeast of Brockway.

Station number.--6-1773

Drainage area.--0.29 sq mi.

Records available.--1954, July 1957 to

Gage.--Crest-stage gage installed Jan. 15, 1958.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1954	e Aug. 18, 1954	7.40	72
1957	e July 14, 1957	9.40	83
1958	--	--	(c)
1959	Mar. 18, 1959	b 4.35	a 20
1960	Mar. 20, 1960	1.17	12
1961	July 29, 1961	1.65	16
1962	June 6, 1962	.62	8
1963	June 3, 1963	.60	8
1964	July 5, 1964	11.12	Not determined

a About

b Backwater from ice

c No evidence of flow during year.

e Prior to installation of gage; peak discharge computed from high-water marks along highway embankment at culvert.

114 . South Fork Dry Ash Creek near Circle, Mont.

Location.--Lat 47°18', long 105°35', in NW¼ sec.27, T.18 N., R.48 E., at bridge on county road, 9¼ miles south of Circle.

Station number.--6-1773.5

Drainage area.--5.74 sq mi.

Records available.--June 1955 to

Gage.--Crest-stage gage installed June 13, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1955	July 12, 1955	2.18	56
1956	Mar. 1, 1956	1.37	17
1957	Feb. 26, 1957	1.58	52
1958	June 3, 1958	.23	3
1959	Mar. 22, 1959	2.12	79
1960	Aug. 16, 1960	2.40	85
1961	--	--	(c)
1962	July 14, 1962	1.12	22
1963	June 6, 1963	.76	10
1964	July 5, 1964	1.93	58

115. McCune Creek near Circle, Mont.

Location.--Lat 47°21', long 105°35', in NW¼ sec.3, T.18 N., R.48 E., near bridge on county road, 5 miles south of Circle.

Station number.--6-1774

Drainage area.--29.9 sq mi.

Records available.--June 1955 to

Gage.--Crest-stage gage installed June 13, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1955	July 12, 1955	4.32	128
1956	Mar. 20, 1956	3.31	52
1957	July 14, 1957	4.93	175
1958	June 3, 1958	.98	6
1959	Mar. 22, 1959	--	Unknown
1960	Mar. 20, 1960	5.44	a 150
1961	Mar. 6, 1961	1.36	a 5
1962	July 19, 1962	7.26	235
1963	June 6, 1963	6.29	a 450
1964	July 5, 1964	6.98	a 1,000

a About

c No evidence of flow during year.

116. Cow Creek tributary near Vida, Mont.

Location.--Lat 47°33', long 105°29', in SE $\frac{1}{4}$ sec.36, T.23 N., R.48 E., at bridge on State Highway 13, 8.8 miles south of Vida, and 20 miles northeast of Circle.

Station number.--6-1777

Drainage area.-- 1.71 sq.mi.

Records available.--May 1963 to

Gage.--Crest-stage gage installed May 18, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	June 5, 1963	4.07	750
1964	--	--	(c)

117. Wolf Creek tributary near Vida, Mont.

Location.--Lat 47°55', long 105°30', in SE $\frac{1}{4}$ sec.15, T.25 N., R.48 E., at bridge on State Highway 13, 11.1 road miles south of the Missouri River bridge near Wolf Point, and 5.5 miles north of Vida.

Station number.--6-1778

Drainage area.-- 0.91 sq mi.

Records available.--July 1962 to

Gage.--Crest-stage gage installed May 18, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	July 14, 1962	8.58	Not determined
1963	Aug. 25, 1963	1.83	a 70
1964	--	--	(c)

a About.

c No evidence of flow during year.

118. Missouri River tributary No. 2 near Brockton, Mont.

Location.--Lat 48°09', long 104°54', in NE $\frac{1}{4}$ sec.29, T.28 N., R.53 E., at culverts on U. S. Highway 2, 1.2 miles east of Brockton.

Station number.--6-1812

Drainage area.-- 1.60 sq mi.

Records available.--August 1962 to

Gage.--Crest-stage gage installed May 19, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	Aug. 10, 1962	8.08	260
1963	July 24, 1963	8.34	313
1964	Apr. 1, 1964	1.53	53

119. Big Muddy Creek at Plentywood, Mont.

Location.--Lat 48°46', long 104°35', in NW¼NW¼ sec.30, T.35 N., R.55 E., at Plentywood.

Station number.--6-1830

Drainage area.--850 sq mi.

Records available.--April 1948 to September 1953 (continuous record), June 1955 to

Gage.--Crest-stage gage installed June 10, 1955. Recording gage April 1948 to September 1953.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1948	Apr. 19, 1948	15.64	2,850
1949	Mar. 30, 1949	10.49	1,020
1950	Apr. 18, 1950	12.27	1,620
1951	May 3, 1951	11.38	1,360
1952	Apr. 8, 1952	19.00	7,240
1953	June 30, 1953	19.40	8,000
1954	--	--	Unknown
1955	--	(f)	< 210
1956	Mar. 22, 1956	b 6.63	a 300
1957	July 16, 1957	6.58	413
1958	Mar. 29, 1958	12.92	1,630
1959	June 30, 1959	10.61	945
1960	Mar. 22, 1960	b17.37	a 3,500
1961	May 30, 1961	6.03	260
1962	Mar. 27, 1962	11.99	1,250
1963	Mar. 22, 1963	b12.00	a 750
1964	May 3, 1964	7.14	390

a About

b Backwater from ice.

f Peak discharge did not reach bottom of gage.

120. Box Elder Creek near Plentywood, Mont.

Location.--Lat 48°50', long 104°30', in sec.34, T.36 N., R.55 E., at culverts on county road, 4 miles northeast of Plentywood.

Station number.--6-1831

Drainage area.--9.40 sq mi.

Records available.--June 1955 to

Gage.--Crest-stage gage installed June 10, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1956	March 1956	0.25	0
1957	July 23, 1957	7.24	328
1958	Mar. 30, 1958	1.88	22
1959	June 26, 1959	3.89	126
1960	Mar. 21, 1960	6.24	265
1961	July 30, 1961	1.58	41
1962	Mar. 26, 1962	2.79	65
1963	Sept. 17, 1963	4.06	103
1964	Mar. 31, 1964	5.49	217

121. Box Elder Creek at damsite, near Plentywood, Mont.

Location.--Lat 48°48', long 104°33', in NE $\frac{1}{4}$ sec.17, T.35 N., R.55 E., at old damsite, 1 $\frac{1}{2}$ miles north of Plentywood.

Station number.--6-1832

Drainage area.--19.9 sq mi.

Records available.--1953, March 1955 to September 1963 (discontinued).

Gage.--Crest-stage gage installed June 10, 1955.

Annual maximum data.--

<u>Water year</u>		<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1953	e	June 30, 1953	6.52	6,530
1955	e	Mar. 29, 1955	2.42	890
1956		--	--	(c)
1957		July 23, 1957	3.56	1,600
1958		Mar. 30, 1958	.75	210
1959		June 26, 1959	1.38	430
1960		Mar. 22, 1960	2.27	820
1961		Mar. 20, 1961	1.26	395
1962		Mar. 26, 1962	1.59	530
1963		Sept. 17, 1963	.81	230

c No evidence of flow during year.

e Prior to installation of gage.

122. Spring Creek near Plentywood, Mont.

Location.--Lat $48^{\circ}49'$, long $104^{\circ}27'$, in SW $\frac{1}{4}$ sec.6, T.35 N., R.55 E., at culvert on county road, 5 miles northeast of Plentywood.

Station number.--6-1833

Drainage area.--7.05 sq mi.

Records available.--June 1955 to

Gage.--Crest-stage gage installed June 10, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1955	July 7, 1955	0.69	5
1956	--	--	(c)
1957	July 23, 1957	2.77	76
1958	Mar. 30, 1958	1.49	25
1959	June 26, 1959	1.30	20
1960	Mar. 21, 1960	5.19	240
1961	July 30, 1961	1.20	17
1962	Mar. 26, 1962	1.32	24
1963	Sept. 17, 1963	a 2.7	72
1964	Mar. 31, 1964	b 5.45	a40

123. Spring Creek at Highway 16, near Plentywood, Mont.

Location.--Lat $48^{\circ}46'$, long $104^{\circ}31'$, in SE $\frac{1}{4}$ sec.21, T.35 N., R.55 E., at bridge on State Highway 16, $1\frac{1}{2}$ miles east of Plentywood.

Station number.--6-1834

Drainage area.--16.9 sq mi.

Records available.--June 1955 to

Gage.--Crest-stage gage installed June 23, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1955	--	--	(c)
1956	Apr. 3, 1956	0.74	4
1957	July 23, 1957	3.38	540
1958	Mar. 30, 1958	2.40	230
1959	June 26, 1959	3.70	660
1960	May 24, 1960	3.56	600
1961	Mar. 20, 1961	1.02	10
1962	Mar. 26, 1962	2.85	375
1963	Sept. 17, 1963	3.61	620
1964	May 3, 1964	1.24	26

a About.

b Backwater from ice.

c No evidence of flow during year.

124. Big Muddy Creek tributary near Culbertson, Mont.

Location.--Lat 48°12', long 104°42', in center of east edge of sec.11, T.28 N., R.54 E., at culverts on county road, 1.9 miles north of U. S. Highway 2, 10 miles northeast of Brockton, and 9 miles northwest of Culbertson.

Station number.--6-1851

Drainage area.-- 7.38 sq mi.

Records available.--May 1963 to

Gage.--Crest-stage gage installed May 19, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	July 10, 1963	9.6	676
1964	June 18, 1964	3.60	85

125. Missouri River tributary No. 3 near Culbertson, Mont.

Location.--Lat 48°06', long 104°31', in center sec.8, T.27 N., R.56 E., at culvert on county road along the south side of the Missouri River, 2.2 miles west of State Highway 16, 3 miles south of Culbertson.

Station number.--6-1852

Drainage area.-- 1.29 sq mi.

Records available.--May 1963 to

Gage.--Crest-stage gage installed May 19, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	Aug. 25, 1963	3.88	142
1964	--	--	(c)

c No evidence of flow during year.

126. Missouri River tributary No. 4 near Bainville, Mont.

Location.--Lat 48°08', long 104°21', in NW $\frac{1}{4}$ sec.34, T.28 N., R.57 E., at culvert on U. S. Highway 2, 0.8 miles east of Lannark, 8 miles east of Culbertson, and 6 miles west of Bainville.

Station number.--6-1853

Drainage area.-- 11.6 sq mi.

Records available.--May 1963 to

Gage.--Crest-stage gage installed May 19, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	July 24, 1963	2.83	323
1964	June 14, 1964	12.02	Not determined

127. Missouri River tributary No. 5 at Culbertson, Mont.

Location.--Lat 48°10', long 104°31', in SE $\frac{1}{4}$ sec.20, T.28 N., R.56 E., at culvert on State Highway 16, 0.7 miles north of U. S. Highway 2, at Culbertson Rodeo Grounds.

Station number.--6-1854

Drainage area.-- 3.67 sq mi.

Records available.--May 1963 to

Gage.--Crest-stage gage installed May 19, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	July 24, 1963	6.60	570
1964	June 14, 1964	2.59	Not determined

128. Yellowstone River tributary near Greycliff, Mont.

Location.--Lat $45^{\circ}44'$, long $109^{\circ}43'$, in SE $\frac{1}{4}$ sec.23, T.1 S., R.16 E., at culvert on Interstate Highway 90 and U. S. Highway 10, 4 miles southeast of Greycliff.

Station number.--6-2015.5

Drainage area.--2.72 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 5, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	--	--	(c)
1961	--	--	(c)
1962	Feb. 8, 1962	0.45	Not determined
1963	June 14, 1963	.55	Not determined
1964	--	--	(c)

129. Bridger Creek near Greycliff, Mont.

Location.--Lat $45^{\circ}41'$, long $109^{\circ}43'$, in NW $\frac{1}{4}$ sec.2, T.2 S., R.16 E., at bridge on county road, 6 miles southeast of Greycliff.

Station number.--6-2016

Drainage area.--61.5 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 5, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	May 1960	0.62	18
1961	March 1961	-.03	5
1962	May 26, 1962	1.36	67
1963	June 14, 1963	1.46	71
1964	June 9, 1964	--	a 80

a About.

c No evidence of flow during year.

130. Work Creek near Reed Point, Mont.

Location.--Lat 45°42', long 109°38', in SE $\frac{1}{4}$ sec.33, T.1 S., R.17 E., at bridge on county road, 4 miles west of Reed Point.

Station number.--6-2016.5

Drainage area.--32.5 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 4, 1959. Altitude of gage is 3,820 ft (from topographic map).

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	Sept. 21, 1959	2.3	a 100
1960	May 1960	--	a 5
1961	--	--	(c)
1962	June 13, 1962	4.08	406
1963	June 14, 1963	1.97	Not determined
1964	--	--	(c)

131. Hump Creek near Reed Point, Mont.

Location.--Lat 45°42', long 109°35', in NE $\frac{1}{4}$ sec.35, T.1 S., R.17 E., at bridge on Interstate Highway 90 and U. S. Highway 10, 2 miles west of Reed Point.

Station number.--6-2017

Drainage area.--7.61 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 4, 1959. Altitude of gage is 3,780 ft (from topographic map).

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Mar. 19, 1960	0.50	15
1961	--	--	(c)
1962	June 13, 1962	2.96	307
1963	May 12, 1963	.29	8
1964	--	(f)	(1

a About.

c No evidence of flow during year.

f Peak discharge did not reach bottom of gage.

132. Berry Creek near Columbus, Mont.

Location.--Lat 45°42', long 109°23', in NW $\frac{1}{4}$ sec.33, T.1 S., R.19 E., at bridge on county road, 8 miles northwest of Columbus.

Station number.--6-2017.5

Drainage area.--23.5 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 4, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	e July 7, 1958	4.54	620
1959	e Mar. 1, 1959	3.86	283
1960	June 15, 1960	.02	Not determined
1961	May 15, 1961	.10	Not determined
1962	July 31, 1962	6.62	Not determined
1963	June 14, 1963	2.60	Not determined
1964	Apr. 24, 1964	.53	Not determined

133. Allen Creek near Park City, Mont.

Location.--Lat 45°36', long 109°03', in NE $\frac{1}{4}$ sec.7, T.3 S., R.22 E., about 200 ft upstream from Cove Ditch flume, 7 miles west of Park City.

Station number.--6-2017.7

Drainage area.--7.17 sq mi.

Records available.--June 1961 to

Gage.--Crest-stage gage installed June 15, 1961.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1961	e May 24, 1961	5.68	1,580
1962	Feb. 1, 1962	1.30	40
1963	June 3, 1963	.15	10
1964	--	--	(c)

c No evidence of flow during year.

e Prior to installation of gage.

134. Wets Creek near Billings, Mont.

Location.--Lat 45°38', long 108°24', in SW $\frac{1}{4}$ sec.28, T.2 S., R.27 E., at bridge on county road, 19 miles southeast of Billings.

Station number.--6-2162

Drainage area.--8.14 sq mi.

Records available.--May 1955 to

Gage.--Crest-stage gage installed May 26, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1955	Aug. 25, 1955	--	a 5
1956	Feb. 22, 1956	3.23	65
1957	June 8, 1957	1.66	62
1958	July 2, 1958	.50	14
1959	June 4, 1959	1.14	39
1960	May 2, 1960	2.50	110
1961	May 21, 1961	.40	10
1962	Mar. 9, 1962	1.92	76
1963	June 8, 1963	2.7	125
1964	Apr. 26, 1964	6.9	565

135. West Buckeye Creek near Billings, Mont.

Location.--Lat 45°39', long 108°24', in NE $\frac{1}{4}$ sec.21, T.2 S., R.27 E., at bridge on county road, 17 miles southeast of Billings.

Station number.--6-2163

Drainage area.--1.54 sq mi.

Records available.--May 1955 to

Gage.--Crest-stage gage installed May 26, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1955	Aug. 25, 1955	1.54	17
1956	May 29, 1956	2.24	92
1957	May 12, 1957	1.81	185
1958	July 2, 1958	1.31	83
1959	June 4, 1959	.68	15
1960	May 2, 1960	1.16	60
1961	May 24, 1961	.80	22
1962	Mar. 9, 1962	1.03	44
1963	June 20, 1963	1.37	a 30
1964	Apr. 26, 1964	4.48	215

136. Pryor Creek near Billings, Mont.

Location.--Lat 45°43', long 108°19', in sec.30, T.1 S., R.28 E., at bridge on Interstate Highway 90 and U. S. Highway 87, 11 miles southeast of Billings.

Station number.--6-2165

Drainage area.--435 sq mi.

Records available.--September 1911 to September 1924 and March 1938 to December 1953 (continuous record), May 1955 to

Gage.--Crest-stage gage installed May 26, 1955. Wire-weight gage September 1911 to September 1924 and March 1938 to December 1953.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1912	July 3, 1912	11.2	d 930
1913	a Mar. 30, 1913	12.54	1,130
1914	June 26, 1914	9.3	d 595
1915	June 12, 1915	9.7	d 645
1916	May 22, 1916	7.01	d 333
1917	June 5, 1917	10.44	d 750
1918	Mar. 27, 1918	8.35	d 480
1919	Aug. 2, 1919	7.30	d 344
1920	May 12, 1920	10.37	d 740
1921	June 9, 1921	9.60	d 635
1922	May 11, 1922	7.65	d 400
1923	Sept. 30, 1923	9.25	d 590
1924	Apr. 4, 1924	10.04	d 705
1938	June 24, 1938	7.9	1,230
1939	June 18, 1939	3.35	d 332
1940	Apr. 16, 1940	2.83	d 208
1941	Sept. 8, 1941	4.68	d 607
1942	May 14, 1942	9.2	1,500
1943	Mar. 26, 1943	--	g 1,000
1944	June 19, 1944	7.66	d 1,150
1945	June 11, 1945	4.80	625
1946	June 12, 1946	3.98	d 489
1947	Mar. 19, 1947	--	g 890
1948	Apr. 20, 1948	3.95	d 464
1949	June 3, 1949	2.22	d 133
1950	Feb. 25, 1950	--	g 230
1951	Mar. 22, 1951	b 9.82	d 761
1952	May 22, 1952	4.25	d 424
1953	June 7, 1953	2.43	d 145
1954	--	--	Unknown
1955	June 16, 1955	3.44	286
1956	Feb. 22, 1956	b 9.12	a 800
1957	June 8, 1957	6.14	825
1958	Feb. 20, 1958	3.26	262
1959	Mar. 2, 1959	4.65	508
1960	May 2, 1960	9.9	1,700
1961	Sept. 20, 1961	3.44	288
1962	Mar. 9, 1962	6.20	840
1963	Apr. 28, 1963	8.40	1,330
1964	Apr. 26, 1964	15.04	3,720

a About

b Backwater from ice or beaver dam.

d Maximum observed

g Maximum daily

137. Crooked Creek tributary near Shepherd, Mont.

Location.--Lat 46°04', long 108°30', in SW $\frac{1}{4}$ sec.21, T.4 N., R.26 E., at bridge on county road, 1.7 miles west of U. S. Highway 87 between Billings and Roundup, 12 miles northwest of Shepherd, and 20 miles north of Billings.

Station number.--6-2177

Drainage area.--

Records available.--June 1962 to

Gage.--Crest-stage gage installed Apr. 22, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e June 4, 1962	13.68	5,120
1963	June 21, 1963	5.26	1,110
1964	June 18, 1964	1.76	a 150

138. Yellowstone River tributary No. 2 near Pompeys Pillar, Mont.

Location.--Lat 46°02', long 107°48', in NW $\frac{1}{4}$ sec.6, T.3 N., R.32 E., at culvert on Interstate Highway 94 and U. S. Highways 10 and 312, 0.7 mile west of Spring Creek, 8 miles east of Pompeys Pillar, and 13 miles west of Custer.

Station number.--6-2178

Drainage area.--

Records available.--May 1962 to

Gage.--Crest-stage gage installed Apr. 28, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e May 13, 1962	a 1.5	Not determined
1963	--	--	(c)
1964	--	--	(c)

a About.

c No evidence of flow during year.

e Prior to installation of gage.

139. Andresen Coulee near Custer, Mont.

Location.--Lat $46^{\circ}04'$, long $107^{\circ}33'$, in center $W\frac{1}{2}$ sec.30, T.4 N., R.34 E., at culvert on State Highway 47, $4\frac{1}{2}$ miles south of Custer, and 5.3 road miles south of U. S. Highways 10 and 312.

Station number.--6-2944

Drainage area.-- 2.35 sq mi.

Records available.--April 1963 to

Gage.--Crest-stage gage installed Apr. 27, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	June 4, 1963	1.57	Not determined
1964	June 18, 1964	1.06	Not determined

140. Unknown Creek near Bighorn, Mont.

Location.--Lat $46^{\circ}12'$, long $107^{\circ}25'$, in $SE\frac{1}{4}$ sec.12, T.5 N., R.34 E., at bridge on Interstate Highway 94 and U. S. Highways 10 and 312, 4 miles east of Bighorn.

Station number.--6-2948

Drainage area.-- 14.6 sq mi.

Records available.--May 1962 to

Gage.--Crest-stage gage installed Apr. 27, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e May 13, 1962	3.98	a 800
1963	June 4, 1963	3.60	657
1964	June 18, 1964	2.73	a 370

a About.

e Prior to installation of gage.

141. Buckingham Coulee near Myers, Mont.

Location.--Lat $46^{\circ}14'$, long $107^{\circ}17'$, in SW $\frac{1}{4}$ sec.25, T.6 N., R.35 E., at bridge on Interstate Highway 94 and U. S. Highways 10 and 312, 3 miles southeast of Myers, and 5 miles southwest of Hysham.

Station number.--6-2948.5

Drainage area.-- 2.63 sq mi

Records available.--May 1962 to

Gage.--Crest-stage gage installed Apr. 27, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e May 13, 1962	1.10	Not determined
1963	June 4, 1963	.50	Not determined
1964	June 18, 1964	2.20	Not determined

142. Middle Fork Froze to Death Creek tributary near Ingomar, Mont.

Location.--Lat $46^{\circ}35'$, long $107^{\circ}24'$, in NE $\frac{1}{4}$ sec.35, T.10 N., R.34 E., at culverts on U. S. Highway 12, 1.1 miles west of Ingomar.

Station number.--6-2949

Drainage area.-- 1.36 sq mi.

Records available.--July 1962 to

Gage.--Crest-stage gage installed May 16, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e July 16, 1962	9.08	463
1963	June 21, 1963	1.30	44
1964	June 18, 1964	1.95	65

e Prior to installation of gage.

143. Yellowstone River tributary No. 3 near Forsyth, Mont.

Location.--Lat 46°18', long 106°40', in NW¼ sec.12, T.6 N., R.40 E., at bridge on county road, 2.4 road miles northeast of U. S. Highway 12, and 2 miles north of Forsyth.

Station number.--6-2950.2

Drainage area.-- 4.38 sq mi.

Records available.--June 1962 to

Gage.--Crest-stage gage installed Apr. 27, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e June 15, 1962	4.84	406
1963	June 19, 1963	1.30	Not determined
1964	Aug. 29, 1964	1.67	Not determined

144. Little Porcupine Creek near Forsyth, Mont.

Location.--Lat 46°18', long 106°34', in NE¼ sec.3, T.6 N., R.41 E., at bridge on county road, 6 miles northeast of Forsyth.

Station number.--6-2950.5

Drainage area.--614 sq mi.

Records available.--May 1958 to

Gage.--Crest-stage gage installed May 9, 1958.

Cooperation.--Montana State Engineer

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	June 3, 1958	4.9	1,480
1959	Mar. 20, 1959	7.08	2,650
1960	Mar. 20, 1960	7.17	2,700
1961	Sept. 20, 1961	8.14	3,320
1962	June 15, 1962	4.53	1,310
1963	June 3, 1963	5.98	2,030
1964	Apr. 27, 1964	2.75	680

145. Rosebud Creek near Kirby, Mont.

Location.--Lat 45°14', long 106°57', in NE $\frac{1}{4}$ sec.16, T.7 S., R.39 E., at culvert on private road, 7 miles south of Kirby.

Station number.--6-2951

Drainage area.-- 34.2 sq mi.

Records available.--April 1959 to

Gage.--Crest-stage gage installed Apr. 15, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Mar. 19, 1960	1.78	55
1961	--	--	(c)
1962	June 16, 1962	1.45	44
1963	Apr. 28, 1963	2.67	85
1964	Apr. 26, 1964	2.24	60

146. Rosebud Creek tributary near Busby, Mont.

Location.--Lat 46°35', long 106°52', in NE $\frac{1}{4}$ sec.13, T.3 S., R.39 E., at bridge on U. S. Highway 212, 1.1 miles east of Two Moon Creek, 6 miles northeast of Busby.

Station number.--6-2951.3

Drainage area.-- 1.14 sq mi.

Records available.--April 1963 to

Gage.--Crest-stage gage installed Apr. 23, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	--	--	(c)
1964	June 18, 1964	1.31	Not determined

c No evidence of flow during year.

147. Whitedirt Creek near Lane Deer, Mont.

Location.--Lat $45^{\circ}36'$, long $106^{\circ}44'$, in NE $\frac{1}{4}$ sec.2, T.3 S., R.40 E., at bridge on county road, $4\frac{1}{2}$ miles west of Lane Deer.

Station number.--6-2952

Drainage area.--1.58 sq mi.

Records available.--April 1959 to

Gage.--Crest-stage gage installed Apr. 15, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	March 1959	--	a 5
1960	Mar. 20, 1960	0.59	3
1961	Sept. 10, 1961	.32	2
1962	February 1962	.53	3
1963	June 3, 1963	1.38	12
1964	June 8, 1964	1.43	13

148. Rosebud Creek near Forsyth, Mont.

Location.--Lat $46^{\circ}11'50''$, long $106^{\circ}28'25''$, in SW $\frac{1}{4}$ sec.9, T.5 N., R.42 E., 10 miles southeast of Forsyth.

Station number.--6-2960

Drainage area.--1,260 sq mi.

Records available.--May 1947 to December 1953 (continuous record), July 1955 to

Gage.--Water-stage recorder re-installed July 15, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1948	July 21, 1948	8.41	382
1949	Mar. 8, 1949	8.96	418
1950	June 9, 1950	7.90	250
1951	Sept. 1, 1951	8.42	280
1952	Mar. 29, 1952	7.81	269
1953	May 30, 1953	10.27	d 596
1954	--	--	Unknown
1955	--	--	<50
1956	March 1956	8.78	a 350
1957	June 17, 1957	8.78	342
1958	March 1958	--	Not determined
1959	Mar. 3, 1959	--	a 570
1960	March 1960	--	Unknown
1961	Sept. 10, 1961	9.58	435
1962	June 7, 1962	9.16	378
1963	June 16, 1963	6.58	182
1964	June 19, 1964	9.49	420

a About

d Maximum observed.

149. Snell Creek near Hathaway, Mont.

Location.--Lat $46^{\circ}18'$, long $106^{\circ}09'$, in NW $\frac{1}{4}$ sec.7, T.6 N., R.45 E., at bridge on old U. S. Highways 10 and 12, $2\frac{1}{2}$ miles northeast of Hathaway, and about 3 miles southwest of Cottonwood Creek.

Station number.--6-2961

Drainage area.-- 10.5 sq mi.

Records available.--April 1963 to

Gage.--Crest-stage gage installed Apr. 26, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	June 3, 1963	1.69	Not determined
1964	Aug. 29, 1964	.30	Not determined

150. Spring Creek near Decker, Mont.

Location.--Lat $45^{\circ}05'$, long $106^{\circ}50'$, in NW $\frac{1}{4}$ sec.33, T.8 S., R.40 E., at bridge on county road, 5 miles north of Decker.

Station number.--6-3069

Drainage area.--36.3 sq mi.

Records available.--May 1958 to

Gage.--Crest-stage gage installed May 9, 1958.

Cooperation.--Montana State Engineer.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	June 7, 1958	3.4	184
1959	Mar. 17, 1959	1.19	45
1960	Mar. 19, 1960	1.31	49
1961	--	--	(c)
1962	June 16, 1962	6.59	Not determined
1963	June 15, 1963	1.07	Not determined
1964	Apr. 22, 1964	.05	Not determined

151. Leaf Rock Creek near Kirby, Mont.

Location.--Lat 45°11', long 106°55', in center sec.35, T.7 S., R.39 E., at culvert on county road, 10 miles south of Kirby.

Station number.--6-3069.5

Drainage area.--6.04 sq mi.

Records available.--April 1959 to

Gage.--Crest-stage gage installed Apr. 15, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	e June 7, 1958	6.77	222
1959	--	--	Unknown
1960	Mar. 19, 1960	5.03	168
1961	--	--	(c)
1962	June 16, 1962	6.37	216
1963	June 15, 1963	6.77	222
1964	Apr. 6, 1964	1.17	Not determined

152. Spring Creek near Ashland, Mont.

Location.--Lat 45°33', long 106°17', in NW¼ sec.27, T.3 S., R.44 E., at culvert on county road along east side of Tongue River, 3.3 road miles south of U. S. Highway 212, 3 miles south of Ashland.

Station number.--6-3076

Drainage area.-- 1.48 sq mi.

Records available.--June 1962 to

Gage.--Crest-stage gage installed Apr. 24, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e June 16, 1962	4.12	110
1963	July 5, 1963	6.90	148
1964	June 18, 1964	b 1.60	a 30

a About.

b Backwater from ice or debris.

c No evidence of flow during year.

e Prior to installation of gage.

153. Walking Horse Creek near Ashland, Mont.

Location.--Lat $45^{\circ}36'$, long $106^{\circ}17'$, in NW $\frac{1}{4}$ sec.3, T.3 S., R.44 E., at culvert on county road along west side of Tongue River, 1.3 road miles north of U. S. Highway 212, and $1\frac{1}{2}$ miles northwest of Ashland.

Station number.--6-3077

Drainage area.-- 2.79 sq mi.

Records available.--April 1963 to

Gage.--Crest-stage gage installed Apr. 24, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	--	--	(c)
1964	--	--	(c)

154. Stebbins Creek near Ashland, Mont.

Location.--Lat $45^{\circ}37'$, long $106^{\circ}25'$, in center of sec.34, T.2 S., R.43 E., at culvert on U. S. Highway 212, 7.5 road miles west of Ashland.

Station number.--6-3078

Drainage area.-- 5.41 sq mi.

Records available.--April 1963 to

Gage.--Crest-stage gage installed Apr. 23, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	Apr. 4, 1963	0.1	Not determined
1964	Apr. 6, 1964	.20	Not determined

c No evidence of flow during year.

155. Stebbins Creek at mouth, near Ashland, Mont.

Location.--Lat $45^{\circ}38'$, long $106^{\circ}18'$, in NW $\frac{1}{4}$ sec.27, T.2 S., R.44 E. at bridge on county road along west side of Tongue River, 3.6 road miles north of U. S. Highway 212, $3\frac{1}{2}$ miles northwest of Ashland.

Station number.--6-3079

Drainage area.-- 20.8 sq mi.

Records available.--April 1963 to

Gage.--Crest-stage gage installed Apr. 24, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	June 15, 1963	2.44	Not determined
1964	June 18, 1964	3.40	Not determined

156. Basin Creek tributary near Volborg, Mont.

Location.--Lat $45^{\circ}53'$, long $105^{\circ}40'$, in NW $\frac{1}{4}$ sec.31, T.2 N., R.49 E., at culvert on county road, $3\frac{1}{2}$ miles north of Volborg.

Station number.--6-3082

Drainage area.--0.14 sq mi.

Records available.--July 1955 to

Gage.--Crest-stage gage installed July 23, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1955	July 29, 1955	0.24	20
1956	--	--	(c)
1957	--	--	(c)
1958	July 2, 1958	6.96	390
1959	March 1959	--	a 2
1960	Mar. 21, 1960	.97	12
1961	--	--	(c)
1962	June 17, 1962	2.76	36
1963	June 22, 1963	9.38	94
1964	June 18, 1964	1.07	14

a About.

c No evidence of flow during year.

157. Basin Creek near Volborg, Mont.

Location.--Lat $45^{\circ}53'$, long $105^{\circ}39'$, in NW $\frac{1}{4}$ sec.32, T.2 N., R.49 E., at bridge on U. S. Highway 212, 4 miles north of Volborg.

Station number.--6-3083

Drainage area.--10.9 sq mi.

Records available.--July 1955 to

Gage.--Crest-stage gage installed July 23, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1955	July 29, 1955	1.1	20
1956	Aug. 27, 1956	5.76	953
1957	Apr. 24, 1957	3.45	300
1958	July 2, 1958	5.79	965
1959	Mar. 11, 1959	1.87	75
1960	Mar. 21, 1960	5.26	770
1961	Sept. 10, 1961	1.04	18
1962	Feb. 11, 1962	3.18	250
1963	June 22, 1963	5.69	920
1964	June 18, 1964	2.48	145

158. North Fork Sunday Creek tributary at Rock Springs, Mont.

Location.--Lat $46^{\circ}49'$, long $106^{\circ}15'$, in SE $\frac{1}{4}$ sec.1, T.12 N., R. 43 E., at culverts on State Highway 22, 0.4 mile northwest of Rock Springs.

Station number.--6-3090.2

Drainage area.-- 1.19 sq mi.

Records available.--May 1963 to

Gage.--Crest-stage gage installed May 17, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	--	--	(c)
1964	June 18, 1964	0.38	Not determined

c No evidence of flow during year.

159. Dry House Creek near Angela, Mont.

Location.--Lat $46^{\circ}41'$, long $106^{\circ}10'$, in NE $\frac{1}{4}$ sec.27, T.11 N., R.44 E., near bridge on State Highway 22, 3.2 miles south of Angela.

Station number.--6-3090.4

Drainage area.-- 35.6 sq mi.

Records available.--May 1963 to

Gage.--Crest-stage gage installed May 17, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	June 4, 1963	3.60	380
1964	June 18, 1964	3.18	280

160. North Fork Sunday Creek tributary No. 2 near Angela, Mont.

Location.--Lat $46^{\circ}34'$, long $106^{\circ}04'$, in NE $\frac{1}{4}$ sec.4, T.9 N., R.45 E., at culvert on State Highway 22, 14.1 road miles northwest of Yellowstone River bridge at Miles City, 15 miles northwest of Miles City, and 13 miles southeast of Angela.

Station number.--6-3090.6

Drainage area.-- 0.34 sq mi.

Records available.--June 1962 to

Gage.--Crest-stage gage installed May 17, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e June 1, 1962	2.42	45
1963	June 3, 1963	5.20	158
1964	June 18, 1964	1.47	19

e Prior to installation of gage.

161. Deep Creek near Kinsey, Mont.

Location.--Lat $46^{\circ}33'$, long $105^{\circ}38'$, in SW $\frac{1}{4}$ sec.12, T.9 N., R.48 E., at culvert on Interstate Highway 94 and U. S. Highway 10, 3.1 miles southwest of Shirley railroad station, 2 miles southeast of Kinsey, and 13 miles northeast of Miles City.

Station number.--6-3090.8

Drainage area.-- 11.1 sq mi.

Records available.--July 1962 to

Gage.--Crest-stage gage installed May 16, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e July 14, 1962	7.80	828
1963	June 5, 1963	16.77	2,420
1964	Aug. 29, 1964	13.83	1,830

162. Meadow Creek near Locate, Mont.

Location.--Lat $46^{\circ}22'$, long $105^{\circ}30'$, in center of N $\frac{1}{2}$ sec.17, T.7 N., R.50 E., at wooden culvert on State Secondary 333 between U. S. Highway 12 and Mizpah, 3.2 road miles southeast of U. S. Highway 12, and 10 miles southwest of Locate.

Station number.--6-3090.9

Drainage area.-- 6.67 sq mi.

Records available.--July 1962 to

Gage.--Crest-stage gage installed Apr. 24, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e July 14, 1962	8.6	1,400
1963	June 21, 1963	.31	Not determined
1964	Aug. 29, 1964	1.60	Not determined

163. Sand Creek near Broadus, Mont.

Location.--Lat 45°26', long 105°26', in SE $\frac{1}{4}$ sec.5, T.5 S., R.51 E., at culverts on Moorhead road, 1.8 miles southwest of Broadus.

Station number.--6-3247

Drainage area.--10.6 sq mi.

Records available.--July 1955 to

Gage.--Crest-stage gage installed July 22, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1955	--	--	(c)
1956	Mar. 16, 1956	1.75	19
1957	Aug. 28, 1957	1.55	15
1958	June 7, 1958	3.95	93
1959	Mar. 18, 1959	4.79	252 (corrected)
1960	Mar. 20, 1960	b 4.78	a 150
1961	--	--	(c)
1962	June 11, 1962	2.85	50
1963	Feb. 5, 1963	2.00	23
1964	June 8, 1964	1.58	13

164. Meyers Creek near Locate, Mont.

Location.--Lat 46°23', long 105°17', in SE $\frac{1}{4}$ sec.1, T.7 N., R.51 E., at culvert on county road on east side of Powder River, 3.4 road miles south of U. S. Highway 12, and 3 miles southeast of Locate.

Station number.--6-3264

Drainage area.-- 9.58 sq mi.

Records available.--July 1962 to

Gage.--Crest-stage gage installed Apr. 25, 1963

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e July 14, 1962	7.79	500
1963	June 6, 1963	8.24	1,370
1964	Aug. 29, 1964	6.62	200

a About.

b Backwater from ice.

c No evidence of flow during year.

e Prior to installation of gage.

165. O'Fallon Creek near Ismay, Mont.

Location.--Lat $46^{\circ}25'$, long $104^{\circ}46'$, near center of east edge of sec.30, T.8 N., R.56 E., at bridge on U. S. Highway 12, $11\frac{1}{2}$ miles west of Plevna, 1 mile east of road to Ismay, and $6\frac{1}{2}$ miles southeast of Ismay.

Station number.--6-3266

Drainage area.-- 669 sq mi.

Records available.--July 1962 to

Gage.--Crest-stage gage installed Apr. 26, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e July 14, 1962	7.23	Not determined
1963	June 7, 1963	4.12	Not determined
1964	June 18, 1964	4.20	Not determined

166. O'Fallon Creek tributary near Ismay, Mont.

Location.--Lat $46^{\circ}25'$, long $104^{\circ}44'$, in SE $\frac{1}{4}$ sec.29, T.8 N., R.56 E., at culvert on U. S. Highway 12, 2 miles east of road to Ismay, 1 mile east of O'Fallon Creek bridge, and 7 miles southeast of Ismay.

Station number.--6-3266.5

Drainage area.-- 0.17 sq mi.

Records available.--July 1962 to

Gage.--Crest-stage gage installed Apr. 25, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e July 14, 1962	3.64	49
1963	June 7, 1963	5.26	59
1964	June 18, 1964	5.27	59

e Prior to installation of gage.

167. Deep Creek near Baker, Mont.

Location.--Lat $46^{\circ}18'$, long $104^{\circ}18'$, in SW $\frac{1}{4}$ sec.2, T.6 N., R.59 E., at culverts on State Highway 7, 5.0 road miles south of U. S. Highway 12 in Baker, and 5 miles south of Baker.

Station number.--6-3267

Drainage area.-- 1.55 sq mi.

Records available.--July 1962 to

Gage.--Crest-stage gage installed Apr. 25, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e July 7, 1962	2.64	Not determined
1963	July 11, 1963	2.55	Not determined
1964	June 8, 1964	3.90	Not determined

168. Pennel Creek near Baker, Mont.

Location.--Lat $46^{\circ}29'$, long $104^{\circ}14'$, in center of south edge of sec.36, T.9 N., R.59 E., at culvert on State Highway 7, 7.8 miles north of U. S. Highway 12 in Baker, and 8 miles north of Baker.

Station number.--6-3268

Drainage area.-- 1.00 sq mi.

Records available.--July 1962 to

Gage.--Crest-stage gage installed Apr. 25, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e July 7, 1962	6.0	240
1963	June 5, 1963	8.51	350
1964	June 18, 1964	1.94	85

e Prior to installation of gage.

169. Yellowstone River tributary No. 4 near Fallon, Mont.

Location.--Lat 46°52', long 105°06', in SW $\frac{1}{4}$ sec.23, T.13 N., R.52 E., at culvert on Interstate Highway 94 and U. S. Highway 10, 0.5 mile northeast of the north end of the Yellowstone River bridge near Fallon, and 2 miles north of Fallon.

Station number.--6-3269

Drainage area.-- 0.67 sq mi.

Records available.--July 1962 to

Gage.--Crest-stage gage installed May 17, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e July 14, 1962	9.58	338
1963	June 6, 1963	.67	a 40
1964	June 8, 1964	1.05	55

170. Yellowstone River tributary No. 5 near Marsh, Mont.

Location.--Lat 46°57', long 104°54', in SW $\frac{1}{4}$ sec.21, T.14 N., R.54 E., at culvert on Interstate Highway 94 and U. S. Highway 10, 2.4 miles northeast of Cracker Box Creek, 2.5 miles southwest of Clear Creek, and 5 miles northeast of Marsh.

Station number.--6-3269.5

Drainage area.-- 0.87 sq mi.

Records available.--July 1962 to

Gage.--Crest-stage gage installed May 17, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e July 14, 1962	2.97	127
1963	June 6, 1963	1.40	Not determined
1964	June 8, 1964	.70	Not determined

a About.

e Prior to installation of gage.

171. Griffith Creek near Glendive, Mont.

Location.--Lat 47°06', long 104°34', in NE $\frac{1}{4}$ sec.36, T.16 N., R.56 E., near bridge on Interstate Highway 94 and U. S. Highway 10, 8 miles east of Glendive.

Station number.--6-3278

Drainage area.--15.5 sq mi.

Records available.--June 1955 to September 1963 (discontinued).

Gage.--Crest-stage gage installed June 30, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1955	July 28, 1955	1.80	a 100
1956	Mar. 19, 1956	.86	a 80
1957	Mar. 20, 1957	.27	50
1958	July 3, 1958	.55	101
1959	Mar. 17, 1959	.74	157
1960	Mar. 20, 1960	1.41	Not determined
1961	June 29, 1961	3.96	Not determined
1962	June 6, 1962	.82	21
1963	June 22, 1963	1.70	Not determined

172. Linden Creek at Intake, Mont.

Location.--Lat 47°18', long 104°31', in NE $\frac{1}{4}$ sec.25, T.18 N., R.56 E., at bridge on State Highway 16, three-quarters of a mile northeast of Intake.

Station number.--6-3287

Drainage area.--5.01 sq mi.

Records available.--March 1958 to

Gage.--Crest-stage gage installed Mar. 11, 1958.

Cooperation.--Montana State Engineer.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	July 3, 1958	0.98	Not determined
1959	Sept. 21, 1959	1.54	Not determined
1960	June 21, 1960	1.35	Not determined
1961	--	--	(c)
1962	June 15, 1962	1.46	Not determined
1963	Feb. 5, 1963	2.38	Not determined
1964	--	--	(c)

a About

c No evidence of flow during year.

173. Indian Creek at Intake, Mont.

Location.--Lat $47^{\circ}17'$, long $104^{\circ}32'$, in SW $\frac{1}{4}$ sec.25, T.18 N., R.56 E., at culvert on State Highway 16, 500 ft northeast of Intake.

Station number.--6-3288.

Drainage area.--0.45 sq mi.

Records available.--March 1958 to

Gage.--Crest-stage gage installed Mar. 11, 1958.

Cooperation.--Montana State Engineer

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	July 3, 1958	3.23	Not determined
1959	Sept. 21, 1959	3.28	Not determined
1960	Mar. 20, 1960	.60	Not determined
1961	Mar. 13, 1961	1.04	Not determined
1962	Aug. 10, 1962	2.93	Not determined
1963	Feb. 5, 1963	1.83	Not determined
1964	June 8, 1964	2.08	Not determined

174. War Dance Creek near Intake, Mont.

Location.--Lat $47^{\circ}20'$, long $104^{\circ}29'$, in SW $\frac{1}{4}$ sec.8, T.18 N., R.57 E., at culvert on State Highway 16, $3\frac{1}{2}$ miles northeast of Intake.

Station number.--6-3289

Drainage area.--4.31 sq mi.

Records available.--March 1958 to

Gage.--Crest-stage gage installed Mar. 11, 1958.

Cooperation.--Montana State Engineer.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	--	--	(c)
1959	Mar. 17, 1959	1.96	Not determined
1960	Mar. 20, 1960	1.83	Not determined
1961	--	--	(c)
1962	June 6, 1962	.94	Not determined
1963	Feb. 5, 1963	-.22	0.4
1964	--	--	(c)

c No evidence of flow during year.

175. First Hay Creek near Sidney, Mont.

Location.--Lat 47°50', long 104°16', in SE $\frac{1}{4}$ sec.16, T.24 N., R.58 E., at bridge on State Highway 16, 4.1 road miles north of "Dryland Crop and Soils Research Station" sign, and 10 miles northwest of Sidney.

Station number.--6-3295.7

Drainage area.-- 30.0 sq mi.

Records available.--May 1963 to

Gage.--Crest-stage gage installed May 20, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1963	Aug. 23, 1963	1.02	Not determined
1964	July 5, 1964	.90	Not determined

176. North Creek near Alzada, Mont.

Location.--Lat 45°04', long 104°31', in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.7, T.9 S., R.59 E., 8 miles northwest of Alzada.

Station number.--6-3329

Drainage area.--0.68 sq mi.

Records available.--May to September 1951 (continuous record), July 1955 to

Gage.--Water-stage recorder re-installed July 21, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1951	June 17, 1951	5.18	260
1955	--	--	(c)
1956	July 2, 1956	4.32	276
1957	Aug. 28, 1957	4.32	276
1958	June 3, 1958	4.66	417
1959	June 30, 1959	3.21	58
1960	Aug. 17, 1960	3.77	142
1961	Sept. 18, 1961	4.05	203
1962	May 21, 1962	5.47	a 1,100
1963	June 14, 1963	5.23	Not determined
1964	June 8, 1964	3.20	Not determined

a About.

c No evidence of flow during year.

177. Wolf Creek near Hammond, Mont.

Location.--Lat 45°10', long 104°45', in SE $\frac{1}{4}$ sec.5, T.8 S., R.57 E., at culvert on U. S. Highway 212, 8 miles southeast of Hammond.

Station number.--6-3341

Drainage area.--9.09 sq mi.

Records available.--July 1955 to

Gage.--Crest-stage gage installed July 22, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1955	e July 11, 1955	4.08	298
1956	Mar. 22, 1956	3.45	175
1957	Aug. 29, 1957	4.58	365
1958	June 3, 1958	5.76	550
1959	Mar. 19, 1959	3.32	154
1960	Mar. 21, 1960	5.26	485
1961	Sept. 18, 1961	2.31	30
1962	May 21, 1962	5.62	540
1963	Aug. 3, 1963	3.54	190
1964	June 22, 1964	3.85	240

178. Willow Creek near Alzada, Mont.

Location.--Lat 45°06', long 104°35', in center of sec.27, T.8 S., R.58 E., near bridge on U. S. Highway 212, 11 miles northwest of Alzada.

Station number.--6-3342

Drainage area.--123 sq mi.

Records available.--May 1958 to

Gage.--Crest-stage gage installed May 8, 1958.

Cooperation.--Montana State Engineer.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	June 5, 1958	7.54	455
1959	Mar. 19, 1959	7.31	548
1960	Mar. 23, 1960	11.19	a 1,350
1961	Sept. 18, 1961	1.77	40
1962	May 21, 1962	11.98	a 1,700
1963	Aug. 3, 1963	7.28	480
1964	June 22, 1964	4.84	200

a About

e Prior to installation of gage.

179. North Fork Coal Bank Creek near Mill Iron, Mont.

Location.--Lat $45^{\circ}56'$, long $104^{\circ}05'$, in SW $\frac{1}{4}$ sec.12, T.2 N., R.61 E., at bridge on county road, 5 miles south of Soda Creek tributary crest-stage gage, 11 miles southeast of Webster, and 9 miles northeast of Mill Iron.

Station number.--6-3346.4

Drainage area.-- 15.0 sq mi.

Records available.--May 1962 to

Gage.--Crest-stage gage installed Apr. 26, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e May 22, 1962	4.72	Not determined
1963	July 10, 1963	2.65	Not determined
1964	June 9, 1964	1.70	Not determined

180. Soda Creek tributary near Webster, Mont.

Location.--Lat $46^{\circ}01'$, long $104^{\circ}06'$, in NE $\frac{1}{4}$ sec.23, T.3 N., R.61 E., at culvert on county road, 0.3 miles south of Soda Creek, and 8 miles south-east of Webster.

Station number.--6-3347.2

Drainage area.-- 2.22 sq mi.

Records available.--May 1962 to

Gage.--Crest-stage gage installed Apr. 26, 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1962	e May 22, 1962	5.19	106
1963	July 10, 1963	1.57	12
1964	Aug. 29, 1964	2.55	28

e Prior to installation of gage.

181. Spring Creek near Wibaux, Mont.

Location.--Lat $46^{\circ}53'$, long $104^{\circ}12'$, in sec.14, T.13 N., R.59 E., near bridge on State Highway 7, 7 miles south of Wibaux.

Station number.--6-3364.5

Drainage area.--3.88 sq mi.

Records available.--June 1955 to

Gage.--Crest-stage gage installed June 29, 1955.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1956	March 1956	0.67	61
1957	Sept. 9, 1957	1.36	127
1958	March 1958	.54	52
1959	Mar. 21, 1959	1.18	108
1960	Mar. 20, 1960	.84	76
1961	—	—	(c)
1962	July 19, 1962	3.34	438
1963	Feb. 5, 1963	.57	53
1964	July 5, 1964	.95	85

c No evidence of flow during year.

182. Fortine Creek near Trego, Mont.

Location.--lat 48°39', long 114°55', in NE¼ sec.11, T.33 N., R.26 W., 5½ miles southwest of Trego.

Station number.--12-3005

Drainage area.--112 sq mi.

Records available.--December 1946 to September 1953 (continuous record), 1954, May 1958 to

Gage.--Crest-stage gage installed July 1, 1959. Wire-weight gage December 1946 to September 1953.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1947	Apr. 29, 1947	10.24	948
1948	May 22, 1948	10.46	1,000
1949	May 11, 1949	9.34	d 754
1950	May 16, 1950	11.8	1,810
1951	May 7, 1951	9.95	875
1952	Apr. 28, 1952	9.65	798
1953	May 7, 1953	9.90	860
1954	May 20, 1954	11.8	1,810
1958	May 24, 1958	10.2	a 850
1959	--	--	Unknown
1960	May 8, 1960	9.7	700
1961	May 11, 1961	a 10.0	a 700
1962	Apr. 19, 1962	8.96	540
1963	Apr. 26, 1963	6.01	360
1964	May 18, 1964	9.48	600

a About

d Maximum observed.

183. Deep Creek near Fortine, Mont.

Location.--Lat 48°46', long 114°52', in SE $\frac{1}{4}$ sec.30, T.35 N., R.25 W., at bridge on county road, 1 $\frac{1}{4}$ miles east of Fortine.

Station number.--12-3008

Drainage area.--17.9 sq mi.

Records available.--July 1959 to

Gage.--Crest-stage gage installed July 1, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	(1)	2.8	150
1960	June 6, 1960	2.67	138
1961	May 31, 1961	2.92	161
1962	May 28, 1962	1.75	82
1963	June 22, 1963	2.26	108
1964	June 8, 1964	4.90	310

184. Kootenai River tributary near Rexford, Mont.

Location.--Lat 48°48', long 115°18', in SE $\frac{1}{4}$ sec.11, T.35 N., R.29 W., at culvert on State Highway 37, 7 miles southwest of Rexford.

Station number.--12-3017

Drainage area.--1.11 sq mi.

Records available.--July 1959 to

Gage.--Crest-stage gage installed July 1, 1959

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	(1)	0.5	2
1960	Apr. 8, 1960	1.25	9
1961	May 12, 1961	1.28	9
1962	May 21, 1962	1.16	8
1963	May 14, 1963	.55	3
1964	May 21, 1964	1.00	7

1 Peak flow occurred sometime during period May-June.

185. Gold Creek near Rexford, Mont.

Location.--Lat 48°47', long 115°19', in NW $\frac{1}{4}$ sec.23, T.35 N., R.29 W., at culvert on State Highway 37, 8 miles southwest of Rexford.

Station number.--12-3018

Drainage area.--6.04 sq mi.

Records available.--July 1959 to

Gage.--Crest-stage gage installed July 1, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	(i)	1.5	103
1960	Apr. 8, 1960	.85	55
1961	May 21, 1961	.97	64
1962	May 12, 1962	.78	50
1963	May 14, 1963	.27	22
1964	May 20, 1964	.93	61

186. Little Jackson Creek near Libby, Mont.

Location.--Lat 48°27', long 115°19', in center sec.16, T.31 N., R.29 W., at culvert on State Highway 37, 12 miles northeast of Libby.

Station number.--12-3019

Drainage area.--2.60 sq mi.

Records available.--May 1961 to

Gage.--Crest-stage gage installed May 16, 1961.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1961	e May 15, 1961	0.4	13
1962	--	(f)	<4
1963	February 1963	b .22	a 5
1964	--	(f)	<4

a About.

b Backwater from ice.

e Prior to installation of gage.

f Peak did not reach bottom of gage.

i Peak flow occurred sometime during period May-June.

187. Peoples Creek near Libby, Mont.

Location.--Lat 45°20', long 115°19', in NW¹ sec.28, T.30 N., R.29 W., at culvert on private road 12 miles east of Libby.

Station number.--12-3020.5

Drainage area.--2.65 sq mi.

Records available.--May 1961 to

Gage.--Crest-stage gage installed May 16, 1961.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1961	e May 15, 1961	0.3	Not determined
1962	May 18, 1962	.05	Not determined
1963	--	(f)	<0.5
1964	Apr. 21, 1964	-.04	1

188. Shaughnessy Creek near Libby, Mont.

Location.--Lat 48°18', long 115°36', in W¹ sec.5, T.29 N., R.31 W., at culvert on county road, 6½ miles southwest of Libby.

Station number.--12-3024

Drainage area.--1.11 sq mi.

Records available.--July 1959 to

Gage.--Crest-stage gage installed July 2, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	(i)	0.4	16
1960	--	(f)	<4
1961	Mar. 30, 1961	.73	33
1962	May 16, 1962	.67	29
1963	Apr. 4, 1963	.09	6
1964	April 1964	.39	a 16

a About.

e Prior to installation of gage.

f Peak discharge did not reach bottom of gage.

i Peak flow occurred sometime during period May-June.

189. Whitetail Creek near Yaak, Mont.

Location.--Lat $48^{\circ}50'$, long $115^{\circ}49'$, in NE $\frac{1}{4}$ sec.1, T.35 N., R.33 W., 500 ft upstream from mouth, 5 miles west of Yaak.

Station number.--12-3042.5

Drainage area.--2.61 sq mi.

Records available.--July 1960 to

Gage.--Crest-stage gage installed July 15, 1960.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	(1)	0.7	33
1961	May 1, 1961	1.02	49
1962	May 21, 1962	.45	11
1963	Apr. 4, 1963	.58	15
1964	May 22, 1964	.70	31

190. Cyclone Creek near Yaak, Mont.

Location.--Lat $48^{\circ}45'$, long $115^{\circ}54'$, in SE $\frac{1}{4}$ sec.32, T.35 N., R.33 W., at bridge a quarter of a mile upstream from mouth, 10 $\frac{1}{2}$ miles southwest of Yaak.

Station number.--12-3043

Drainage area.--5.66 sq mi.

Records available.--July 1960 to

Gage.--Crest-stage gage installed July 15, 1960.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	(1)	2.06	220
1961	May 26, 1961	1.78	172
1962	May 21, 1962	1.26	97
1963	Apr. 4, 1963	1.58	133
1964	May 22, 1964	1.94	150

1 Peak flow occurred sometime during period May-June.

191. Fourth of July Creek near Yaak, Mont.

Location.--Lat $48^{\circ}42'$, long $115^{\circ}52'$, in NW $\frac{1}{4}$ sec.22, T.34 N., R.33 W., at bridge 500 ft upstream from mouth, 12 miles southwest of Yaak.

Station number.--12-3044

Drainage area.--7.70 sq mi.

Records available.--July 1960 to

Gage.--Crest-stage gage installed July 14, 1960.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	(1)	2.5	258
1961	May 26, 1961	2.06	196
1962	Apr. 19, 1962	1.60	138
1963	Apr. 14, 1963	.95	61
1964	May 22, 1964	2.20	190

192. Smith Gulch near Silverbow, Mont.

Location.--Lat $45^{\circ}57'$, long $112^{\circ}40'$, in N $\frac{1}{2}$ sec.1, T.2 N., R.9 W., at culvert on Interstate Highway 15 and U. S. Highway 91, 4 miles south of Silverbow.

Station number.--12-3233

Drainage area.--4.85 sq mi.

Records available.--May 1959 to

Gage.--Crest-stage gage installed May 11, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	--	--	a 5
1960	Mar. 21, 1960	1.97	43
1961	Sept. 11, 1961	2.41	67
1962	Apr. 14, 1962	1.70	32
1963	Feb. 4, 1963	4.91	80
1964	Mar. 30, 1964	3.04	10

a About

i Peak flow occurred sometime during period May-June.

193. Clark Fork tributary near Drummond, Mont.

Location.--Lat $46^{\circ}37'$, long $113^{\circ}02'$, in SW $\frac{1}{4}$ sec.18, T.10 N., R.11 W., half a mile upstream from Interstate Highway 90 and U. S. Highway 10, $6\frac{1}{2}$ miles east of Drummond.

Station number.--12-3247

Drainage area.--4.61 sq mi.

Records available.--June 1959 to

Gage.--Crest-stage gage installed June 17, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	e June 9, 1958	1.64	133
1959	--	--	(c)
1960	Mar. 18, 1960	1.62	84
1961	Apr. 3, 1961	.70	20
1962	Apr. 4, 1962	.62	18
1963	Feb. 4, 1963	1.44	56
1964	Mar. 31, 1964	.98	21

194. Morris Creek near Drummond, Mont.

Location.--Lat $46^{\circ}40'$, long $113^{\circ}06'$, in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.34, T.11 N., R.12 W., at culvert on State Secondary Highway 271, 2 miles east of Drummond.

Station number.--12-3248

Drainage area.--12.6 sq mi.

Records available.--June 1959 to

Gage.--Crest-stage gage installed June 17, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Mar. 26, 1960	1.23	Not determined
1961	Apr. 3, 1961	.47	3
1962	Apr. 23, 1962	.65	4
1963	Mar. 21, 1963	.76	6
1964	May 20, 1964	1.06	10

c No evidence of flow during year
e Prior to installation of gage.

195. West Twin Creek near Bonner, Mont.

Location.--Lat 46°55', long 113°43', in NW $\frac{1}{4}$ sec.2, T.13 N., R.17 W., at bridge on State Highway 20, 8 miles east of Bonner.

Station number.--12-3399

Drainage area.--7.47 sq mi.

Records available.--June 1959 to

Gage.--Crest-stage gage installed June 17, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	June 1959	0.7	98
1960	Apr. 6, 1960	.63	82
1961	May 27, 1961	.91	128
1962	Apr. 19, 1962	.92	92
1963	May 29, 1963	.63	63
1964	June 8, 1964	b 1.10	a 150

196. Marshall Creek near Missoula, Mont.

Location.--Lat 46°53', long 113°55', in NW $\frac{1}{4}$ sec.18, T.13 N., R.18 W., at culvert on Interstate Highway 90 and U. S. Highways 10 and 12, 3 miles east of Missoula.

Station number.--12-3402

Drainage area.--5.47 sq mi.

Records available.--June 1959 to

Gage.--Crest-stage gage installed June 19, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	June 1959	0.3	13
1960	Apr. 7, 1960	.26	11
1961	May 27, 1961	.27	12
1962	Apr. 25, 1962	.53	15
1963	May 6, 1963	.38	7
1964	May 21, 1964	1.05	a 50

a About.

b Backwater from ice.

197. Burke Gulch near Darby, Mont.

Location.--Lat $46^{\circ}02'$, long $114^{\circ}09'$, in $S\frac{1}{2}$ sec.12, T.3 N., R.21 W., 1 mile upstream from mouth, $1\frac{1}{2}$ miles east of Darby.

Station number.--12-3443

Drainage area.--6.28 sq mi.

Records available.--April 1958 to

Gage.--Staff gage installed Apr. 16, 1958. Crest-stage gage installed July 21, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	May 12, 1958	0.94	11
1959	May 16, 1959	--	a 5
1960	Apr. 7, 1960	.85	8
1961	May 27, 1961	.40	2
1962	May 1962	(f)	a 4
1963	February 1963	1.08	13
1964	Apr. 21, 1964	.95	11

198. Camas Creek near Hamilton, Mont.

Location.--Lat $46^{\circ}09'$, long $114^{\circ}13'$, in $SW\frac{1}{4}$ sec.34, T.5 N., R.21 W., 8 miles southwest of Hamilton.

Station number.--12-3458

Drainage area.--6.01 sq mi.

Records available.--April 1958 to

Gage.--Staff gage installed Apr. 17, 1958. Crest-stage gage installed July 21, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	May 20, 1958	2.52	240
1959	June 7, 1959	2.30	190
1960	June 4, 1960	2.65	265
1961	May 28, 1961	2.30	190
1962	June 25, 1962	2.06	80
1963	May 25, 1963	2.03	74
1964	June 26, 1964	2.15	120

a About

f Peak discharge did not reach bottom of gage.

199. Gash Creek near Victor, Mont.

Location.--Lat 46°24', long 114°16', in W $\frac{1}{2}$ sec.32, T.8 N., R.21 W., 5 miles west of Victor.

Station number.--12-3502

Drainage area.--3.37 sq mi.

Records available.--July 1958 to

Gage.--Staff gage installed July 8, 1958. Crest-stage gage installed July 20, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	May 21, 1958	--	a 200
1959	June 5, 1959	1.58	160
1960	June 4, 1960	.75	80
1961	May 28, 1961	1.57	99
1962	June 25, 1962	1.26	47
1963	June 5, 1963	1.19	a 60
1964	June 26, 1964	1.36	75

200. Kootenai Creek near Stevensville, Mont.

Location.--Lat 46°32'30", long 114°10'00", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.18, T.9 N., R.20 W., 3 miles upstream from mouth and 4 miles northwest of Stevensville.

Station number.--12-3505

Drainage area.--28.9 sq mi.

Records available.--December 1948 to September 1953, August 1957 to September 1963 (continuous record), October 1963 to

Gage.--Water-stage recorder.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1948	May-June 1948	--	1,250
1949	May 16, 1949	5.11	980
1950	June 17, 1950	5.85	1,300
1951	June 15, 1951	4.36	654
1952	June 6, 1952	3.76	381
1953	June 13, 1953	3.99	490
1958	May 24, 1958	5.63	1,080
1959	June 13, 1959	5.39	1,020
1960	June 16, 1960	5.30	998
1961	June 4, 1961	4.99	840
1962	June 16, 1962	4.53	630
1963	June 5, 1963	4.29	562
1964	June 8, 1964	4.88	790

201. Burnt Fork Creek near Stevensville, Mont.

Location.--Lat 46°27'50", long 113°56'40", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.11, T.8 N., R.19 W.,
150 ft upstream from county road bridge and 8 miles southeast of Stevensville.

Station number.--12-3510

Drainage area.--74.0 sq mi.

Records available.--May to November 1920, April 1922 to September 1924 (no winter records), April to June 1938, October 1938 to September 1962 (continuous record), October 1962 to

Gage.--Staff gage. Crest-stage gage installed July 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1920	June 16, 1920	2.16	347
1922	June 10, 1922	2.64	620
1923	June 19, 1923	1.92	276
1924	May 18, 1924	1.90	268
1938	May 28, 1938	2.92	641
1939	May 4, 1939	1.74	192
1940	May 25, 1940	1.40	121
1941	June 4, 1941	1.36	119
1942	May 26, 1942	2.12	371
1943	June 19, 1943	2.04	382
1944	June 19, 1944	1.50	183
1945	June 4, 6, 1945	1.40	139
1946	May 28, 1946	1.43	142
1947	May 8, 9, 1947	2.20	414
1948	May 28, 29, 1948	2.54	565
1949	May 17, 1949	2.05	310
1950	June 21, 1950	2.22	379
1951	May 24, 1951	2.16	361
1952	May 26, 1952	1.86	233
1953	June 13, 1953	2.19	351
1954	June 28, 1954	2.09	300
1955	June 15, 1955	3.28	284
1956	May 24, 1956	3.72	414
1957	June 3, 4, 1957	3.46	320
1958	May 21, 22, 1958	3.48	371
1959	June 14, 1959	--	g 310
1960	June 5, 1960	3.24	317
1961	June 4, 1961	3.62	411
1962	June 14, 1962	3.28	303
1963	June 5, 1963	3.35	312
1964	June 8, 1964	4.73	720

g Maximum daily.

Note.--Maximum discharges prior to 1959 are maximum observed.

202. Eightmile Creek near Florence, Mont.

Location.--Lat $46^{\circ}39'10''$, long $113^{\circ}57'30''$, in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.2, T.10 N., R.19 W.,
0.6 mile upstream from Granite Creek, 5 miles upstream from mouth, and 6
miles east of Florence.

Station number.--12-3514

Drainage area.--20.6 sq mi.

Records available.--September 1957 to September 1963 (continuous record), October
1963 to

Gage.--Water-stage recorder prior to October 1963. Crest-stage gage installed
October 1963.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1958	May 13, 1958	2.72	62
1959	June 6, 1959	2.06	33
1960	Apr. 10, 1960	2.03	30
1961	May 30, 1961	2.19	38
1962	May 25, 1962	2.27	36
1963	May 26, 1963	1.98	26
1964	June 8, 1964	3.60	104

203. Hayes Creek near Missoula, Mont.

Location.--Lat 46°49', long 114°06', in center sec.10, T.12 N., R.20 W.,
at culvert on U. S. Highways 12 and 93, 2 miles southwest of Missoula.

Station number.--12-3522

Drainage area.--4.16 sq mi.

Records available.--June 1959 to

Gage.--Crest-stage gage installed June 19, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	(i)	0.6	3
1960	Apr. 5, 1960	3.77	56
1961	May 27, 1961	.70	4
1962	Apr. 24, 1962	1.34	14
1963	Mar. 22, 1963	.58	3
1964	May 22, 1964	1.63	21

204. Nigger Gulch near Alberton, Mont.

Location.--Lat 47°01', long 114°32', in NW $\frac{1}{4}$ sec.33, T.15 N., R.23 W., at
culvert on county road, 2.6 miles west of Alberton.

Station number.--12-3534

Drainage area.--8.02 sq mi.

Records available.--June 1959 to

Gage.--Crest-stage gage installed June 19, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	(i)	0.7	23
1960	Apr. 6, 1960	.80	27
1961	May 2, 1961	.74	24
1962	May 29, 1962	.54	16
1963	May 6, 1963	.59	18
1964	June 9, 1964	1.01	67

205. Thompson Creek near Superior, Mont.

Location.--Lat 47°12', long 114°55', in SW $\frac{1}{4}$ sec.28, T.17 N., R.26 W., 1 $\frac{1}{2}$ miles west of Superior.

Station number.--12-3538

Drainage area.--12.2 sq mi.

Records available.--May 1961 to

Gage.--Crest-stage gage installed May 15, 1961.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1961	May 26, 1961	0.53	a 55
1962	Apr. 24, 1962	.82	85
1963	Apr. 14, 1963	.15	20
1964	May 21, 1964	.53	79

206. East Fork Timber Creek near Haugan, Mont.

Location.--Lat 47°25', long 115°25', in NE $\frac{1}{4}$ sec.16, T.19 N., R.30 W., at culvert on county road 2 miles north of Haugan.

Station number.--12-3538.5

Drainage area.--2.72 sq mi.

Records available.--May 1961 to

Gage.--Crest-stage gage installed May 15, 1961.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1961	May 2, 1961	0.38	23
1962	Apr. 15, 1962	.82	45
1963	Apr. 14, 1963	.33	20
1964	May 22, 1964	.87	40

207. North Fork Little Joe Creek near St. Regis, Mont.

Location.--Lat 47°16', long 115°09', in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.34, T.18 N., R.28 W.,
at bridge on county road, 3 miles southwest of St. Regis.

Station number.--12-3541

Drainage area.--14.7 sq mi.

Records available.--July 1959 to

Gage.--Crest-stage gage installed July 3, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	May 12, 1960	1.84	179
1961	May 26, 1961	1.88	185
1962	May 27, 1962	1.16	91
1963	May 28, 1963	.95	57
1964	June 8, 1964	1.91	212

208. Skyland Creek near Essex, Mont.

Location.--Lat 48°17'30", long 113°23'10", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.9, T.29 N., R.14 W.,
10 miles northeast of Essex.

Station number.--12-3560

Drainage area.--8.09 sq mi.

Records available.--January 1946 to September 1952 (continuous record), 1954,
June 1959 to

Gage.--Water-stage recorder re-installed June 30, 1959; destroyed June 8, 1964.

Crest-stage gage installed Sept. 10, 1964.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1946	May 28, 1946	1.72	117
1947	May 9, 1947	1.84	189
1948	May 22, 1948	2.15	284
1949	May 16, 1949	1.68	126
1950	June 12, 1950	2.46	268
1951	June 15, 1951	2.05	179
1952	May 15, 1952	1.87	148
1954	May 19, 1954	2.3	230
1959	June 5, 1959	2.1	189
1960	June 3, 1960	2.00	169
1961	May 30, 1961	2.48	267
1962	May 29, 1962	1.58	93
1963	June 5, 1963	1.52	82
1964	June 8, 1964	9.55	3,580

209. Moccasin Creek near West Glacier, Mont.

Location.--Lat 48°29', long 113°51', in SE $\frac{1}{4}$ sec.35, T.32 N., R.18 W., at culvert on U. S. Highway 2, 6 $\frac{1}{2}$ miles east of West Glacier.

Station number.--12-3573

Drainage area.--1.97 sq mi.

Records available.--June 1959 to

Gage.--Crest-stage gage installed June 30, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	(i)	1.3	102
1960	June 3, 1960	1.29	120
1961	May 27, 1961	1.43	105
1962	Apr. 24, 1962	1.17	50
1963	May 25, 1963	1.15	48
1964	June 8, 1964	--	Not determined

210. Middle Fork Flathead River tributary at West Glacier, Mont.

Location.--Lat 48°30', long 113°58', in NE $\frac{1}{4}$ sec.36, T.32 N., R.19 W., at culvert on U. S. Highway 2, 0.9 mile east of West Glacier.

Station number.--12-3574

Drainage area.--0.10 sq mi.

Records available.--June 1959 to

Gage.--Crest-stage gage installed June 30, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	Apr. 3, 1960	0.27	3
1961	May 2, 1961	.19	2
1962	Apr. 23, 1962	.11	1
1963	--	(f)	< .5
1964	June 8, 1964	.32	a 8

a About.

f Peak discharge did not reach bottom of gage.

i Peak flow occurred sometime during period May-June.

211. Rock Creek near Olney, Mont.

Location.--Lat 48°37', long 114°39', in NW¼ sec.24, T.33 N., R.24 W., at culvert on U. S. Highway 93, 6 miles northwest of Olney.

Station number.--12-3639

Drainage area.--6.18 sq mi.

Records available.--May 1961 to

Gage.--Crest-stage gage installed May 16, 1961.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1961	e May 15, 1961	a 1.2	24
1962	May 21, 1962	.82	13
1963	May 14, 1963	.56	6
1964	May 2, 1964	1.29	25

212. Teepee Creek near Polson, Mont.

Location.--Lat 47°49', long 114°01', in SW¼ sec.23, T.24 N., R.19 W., at culvert on State Highway 35, 11 miles northeast of Polson.

Station number.--12-3709 (published as 12-3703 prior to 1964).

Drainage area.--2.55 sq mi.

Records available.--June 1959 to

Gage.--Crest-stage gage installed June 29, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1960	June 3, 1960	0.48	11
1961	June 2, 1961	.90	22
1962	Apr. 24, 1962	.05	4
1963	—	(f)	< 1
1964	June 8, 1964	2.15	44

a About

e Prior to installation of gage.

f Peak discharge did not reach bottom of gage.

213. Hell Roaring Creek near Polson, Mont.

Location.--Lat $47^{\circ}42'$, long $114^{\circ}03'$, in NW $\frac{1}{4}$ sec.4, T.22 N., R.19 W., at power house, $5\frac{1}{2}$ miles east of Polson.

Station number.--12-3711 (prior to 1964, published as 12-3705).

Drainage area.--6.41 sq mi.

Records available.--May 1917 to September 1932 (continuous record), June 1959 to Prior to 1959, published as Big Creek near Polson.

Gage.--Crest-stage gage installed June 29, 1959. May 1917 to September 1932, water-stage recorder.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1917	June 9, 1917	--	d 104
1918	June 11-14, 1918	--	38
1919	May 27, 1919	--	69
1920	May 14, 1920	--	29.4
1921	June 7, 1921	--	23.3
1922	May 20, 1922	--	49
1923	June 22, 1923	--	29.7
1924	May 17, 1924	--	27.2
1925	May 22, 1925	--	61
1926	May 1, 1926	--	34
1927	June 11, 1927	--	61
1928	May 23, 1928	--	39.5
1929	May 25, 1929	--	33.3
1930	May 25, 1930	--	14.1
1931	Dec. 1, 1930	--	g 8.3
1932	Mar. 19, 1932	--	g 9.0
1948	May 1948	--	85
1959	e May 1959	a 1.3	60
1960	June 3, 1960	.81	27
1961	June 2, 1961	.93	34
1962	Apr. 24, 1962	.49	12
1963	Apr. 15, 1963	.28	5
1964	June 8, 1964	1.73	98

a About.

d Maximum observed.

e Prior to installation of gage.

g Maximum daily.

214. Dayton Creek near Proctor, Mont.

Location.--Lat 47°55', long 114°20', in NW $\frac{1}{4}$ sec.20, T.25 N., R.21 W., at culvert on county road, 2 $\frac{1}{2}$ miles northwest of Proctor.

Station number.--12-3705 (prior to 1964, published as 12-3713).

Drainage area.--20.9 sq mi.

Records available.--June 1959 to

Gage.--Crest-stage gage installed June 18, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	(1)	1.3	37
1960	May 12, 1960	1.74	51
1961	May 27, 1961	3.00	93
1962	Apr. 24, 1962	1.54	45
1963	Apr. 13, 1963	.28	7
1964	June 8, 1964	1.06	29

215. Mill Creek near Niarada, Mont.

Location.--Lat 47°50', long 114°41', in NE $\frac{1}{4}$ sec.20, T.24 N., R.24 W., at bridge on county road, 3 $\frac{1}{2}$ miles northwest of Niarada.

Station number.--12-3743

Drainage area.--28.0 sq mi.

Records available.--June 1959 to

Gage.--Crest-stage gage installed June 18, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	(1)	1.1	90
1960	May 13, 1960	1.00	74
1961	May 1, 1961	1.42	140
1962	Apr. 24, 1962	.97	70
1963	May 17, 1963	.78	45
1964	May 27, 1964	.91	52

i Peak flow occurred sometime during period May-June.

216. South Fork Garden Creek near Hot Springs, Mont.

Location.--Lat 47°39', long 114°43', in SW $\frac{1}{4}$ sec.20, T.22 N., R.24 W., at bridge on county road, 3 miles north of Hot Springs.

Station number.--12-3757

Drainage area.--3.29 sq mi.

Records available.--June 1959 to

Gage.--Crest-stage gage installed June 18, 1959.

Annual maximum data.--

<u>Water year</u>	<u>Date</u>	<u>Gage height (ft)</u>	<u>Discharge (cfs)</u>
1959	(i)	--	a 10
1960	April 1960	--	a 5
1961	May 27, 1961	0.86	29
1962	May 23, 1962	.48	14
1963	May 17, 1963	.73	24
1964	May 27, 1964	1.02	a 45

a About

i Peak flow occurred sometime during period May-June.

Table 1.—Peak discharge at points other than gaging stations.

Stream	Location	Drainage area (sq mi)	Date	Discharge (cfs)
Pryor Creek at Huntley (06A2170.00)	SW $\frac{1}{4}$ sec.25, T.2 N., R.27 E., at concrete structure of creek crossing over canal, about 500 ft upstream from mouth, and $\frac{1}{4}$ mile southwest of Huntley.	606	Apr. 27, 1964	3,860

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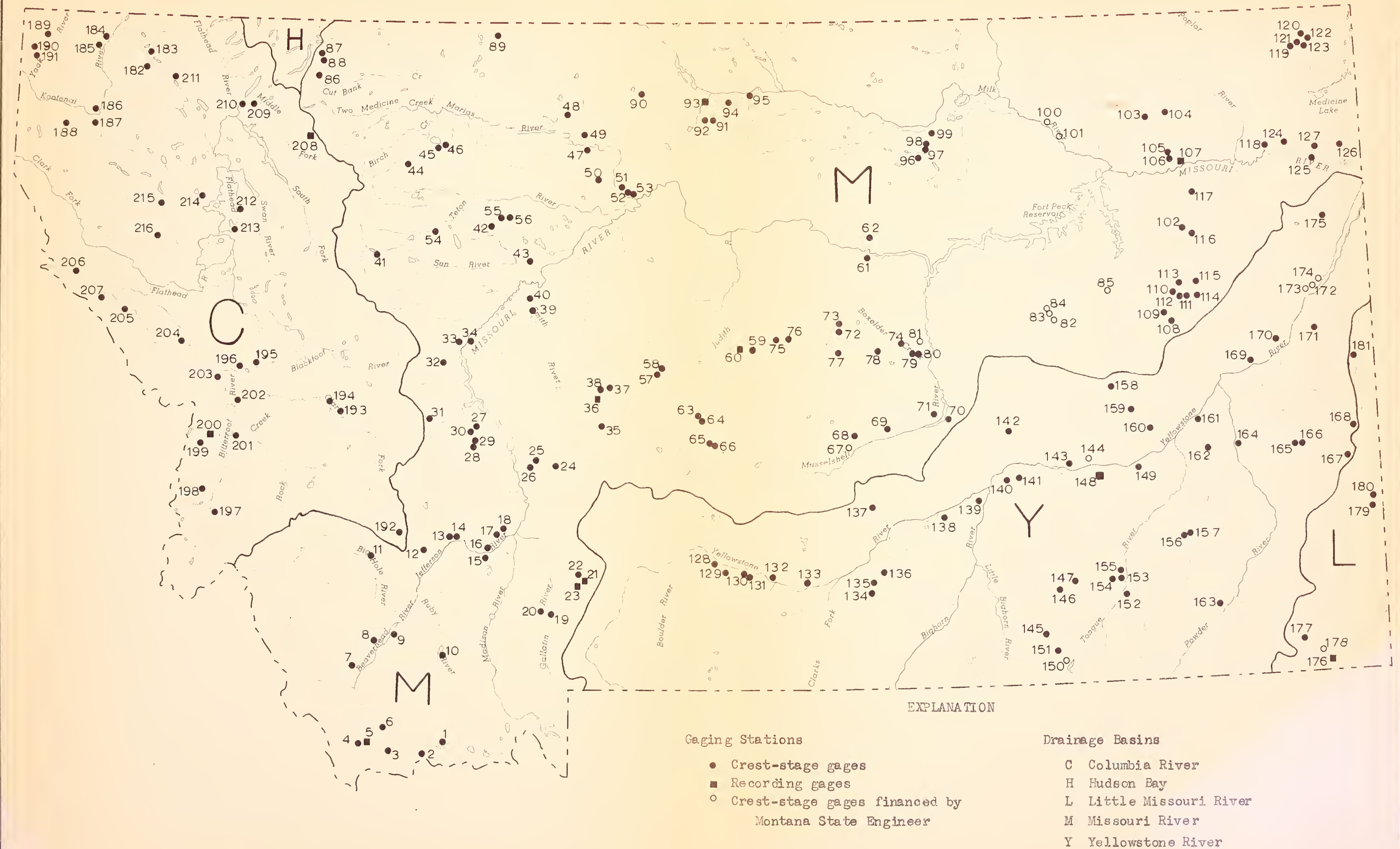


Figure 1.--Map showing location of gaging stations and major drainage basins.

